

肠道菌群 | 2026-09 月度文献报告

碱基日读 · 作者 碱基 · 数据来源 PubMed / bioRxiv 官方接口 · 本月收录 500 篇，正文详述其中 30 篇

本月概览

本月30篇文献的重心集中在两处：其一，菌群衍生代谢物在远端器官（肿瘤免疫微环境、前额叶皮质、海马）的因果效应，研究精度已从"某类代谢物"细化至具体分子种；其二，综述与方案论文占近三分之一，覆盖双歧杆菌生物地理学、计算预测工具、微塑料神经毒性等交叉方向，反映出该领域正处于"数据积累已够、系统整合滞后"的阶段。

真正称得上方法学变化的有两处：一是以菌群网络拓扑（共现/共排斥关系）而非单一物种丰度来分层结直肠癌风险；二是将细菌胞外囊泡（BEV）系统给药确立为有效的无细胞微生物干预模式，为活菌疗法之外的技术路线提供了早期概念验证。动物模型机制研究仍是主力，临床随机对照试验极为稀缺，最大规模的人体队列数据来自CAR-T领域和结直肠癌筛查队列。

值得细看的研究

戊酸 vs. 吡啶类代谢物：CAR-T 疗效的肠道开关

本月最具临床分量的研究发表于Cell (PMID: 42805174)。研究纳入三个德国中心共129例接受CAR-T治疗的血液肿瘤患者，通过散弹宏基因组测序和靶向质谱分析，在治疗前发现了两类方向相反的代谢物信号：低水平短链脂肪酸（尤其是戊酸）与疾病进展风险升高相关；而高水平吡啶代谢物（吡啶-3-甲醛、吡啶-3-乙酸）及支链脂肪酸异戊酸则与不良预后相关。研究随后在人源性和鼠源性CAR-T细胞模型中进行了功能验证：补充戊酸增强了CAR-T细胞效力，而吡啶-3-甲醛和异戊酸削弱了疗效。

这项研究的证据强度在本月文献中处于最高层级——临床相关性与体外/体内因果验证同时具备，方法学上宏基因组与靶向代谢组双管齐下。局限在于：样本来自三个德国中心，种族与饮食多样性受限；戊酸从肠道到CAR-T细胞的具体信号路径尚未阐明；高吡啶水平在多大程度上是抗生素使用的下游结果，论文未完全厘清。对领域的意义在于：它把菌群代谢物从"可能相关"推进到了"因果可干预"的层级，为代谢物导向的辅助干预设计提供了直接依据。

3807份粪便宏基因组：结直肠癌的"跷跷板"式菌群拓扑

来自TARGET-C筛查试验的研究 (PMID: 42806489) 分析了3807份新测序粪便宏基因组，涵盖2725名健康对照、759例非进展性腺瘤、297例进展性腺瘤和26例结直肠癌。区别于以往关注单一物种丰度的方法，该研究聚焦菌群共现与共排斥的网络拓扑，发现了两个结构对立的网络：14物种的结直肠癌（CR N）相关网络（含*Clostridium symbiosum*）和37物种的负相关网络（含*Roseburia*与*Lachnospira*），两个网络之间呈组内共现、组间互斥的"跷跷板"结构，且在多个独立验证队列中保持稳定。仅基于拓扑物种存在/缺失状态的诊断模型，AUC跨队列分布在0.66至0.87之间 (PMID: 42806489)。

样本量处于本领域较高水平，多队列验证策略也比单一发现队列更可靠。不足之处：26例结直肠癌的子集仍然偏小；代谢物关联分析在统计上属探索性；AUC 0.87出现在个别队列，并非所有队列均达到该水平。

琥珀酸的双路径：强迫样行为的菌-脑因果链

PMID: 42801575从粪菌移植（OCD患者粪菌转移至小鼠后产生强迫样行为）到代谢物（菌群衍生琥珀酸升高），再到通路解析（前额叶皮质小胶质细胞通过SUCNR1受体，加上迷走神经通过5-HT4受体的双路径），构建了一条相对完整的因果链。临床数据显示循环琥珀酸水平区分OCD患者与健康对照的AUC为0.73，并与前额叶皮质功能影像活动相关。在Hoxb8^{-/-} OCD模型小鼠中，抑制琥珀酸脱氢酶可缓解强迫样行为（PMID: 42801575）。

这是本月机制解析最细致的一篇，两条通路的分头验证增加了可信度。主要局限：OCD临床样本量未在摘要中明示；0.73的AUC尚不足以支撑临床诊断；人体功能影像与代谢物的关联属横断面设计，无法排除反向因果。

双歧杆菌：来自高影响力综述的系统性框架

PMID: 42806067来自Nature Reviews Microbiology，从生物地理学、宿主适应和生态功能三个维度对双歧杆菌属进行系统梳理。摘要指出该属具备扩展性的糖苷水解酶库、应激反应系统和特化的细胞表面结构，使其能在宿主肠道中建立稳定定殖，并影响免疫、代谢和神经内分泌功能。这篇综述的价值不在于原创数据，而在于将双歧杆菌置于"营养网络、耐受性与生态弹性"框架下，而非惯常的"抗炎效应"叙事。对领域的贡献是提供了一个标准化的分类学与功能学坐标系，为后续干预研究的菌株选择提供了更扎实的依据。

色氨酸氧化代谢通路：自闭症动物模型的机制修复

PMID: 42801579重新分析了一个公开ASD队列，发现菌群色氨酸氧化代谢的功能潜力降低；随后设计了针对该通路的干预（含干酪乳杆菌C502和高地大麦β-葡聚糖的合生元），在VPA诱导的自闭症小鼠模型中缓解了行为缺陷、恢复了社交刺激相关的CA3钙响应、改善了海马突触结构，并恢复了ERK-CREB-BDNF信号通路。菌群清除实验证明效益依赖活菌存在，口服吲哚乙酸只能部分复现相关改善，回脑皮质神经元AhR敲减实验进一步支持了该通路的必要性（PMID: 42801579）。机制链条相对完整，但完全依赖动物模型，临床层级的证据尚待建立。

细菌胞外囊泡静脉给药：无细胞微生物疗法的概念验证

PMID: 42808771展示了来自人类共生菌*Bacteroides thetaiotaomicron*的BEV经静脉给药后，在B16F10黑色素瘤小鼠模型中抑制原发肿瘤生长并减少肺转移。关键发现是给药途径的决定性作用：静脉有效，腹腔无效。体外24小时暴露不影响B16F10细胞代谢活性（即非直接杀伤），但能激活NF-κB和Toll样受体信号，且标记BEV在系统给药后可在肿瘤组织中检测到富集（PMID: 42808771）。这属于"概念验证"级别的早期探索，宿主侧的具体抗肿瘤机制尚待定义。"无活菌+系统给药"若能推进到标准化制备阶段，将绕开活菌疗法的安全性及可控性障碍。

低甲氧基果胶与老年衰弱：本月少数完成的随机对照试验

PMID: 42803883纳入31名老年衰弱受试者，29人完成4周双盲安慰剂对照干预。与安慰剂相比，低甲氧基（LM）果胶显著改善了30秒坐立测试（ 2.07 ± 1.94 vs. 0.71 ± 2.27 次， $p=0.038$ ），同时改善了焦虑抑郁评分和多项SF-36领域；但计时起立行走测试和循环炎症指标无显著变化。菌群相对丰度有所变化，摘要未提供具体数值。样本量极小、干预仅4周是主要局限，但在老年菌群-体能研究领域，完成的随机对照试验本身就是稀缺资源，这份阳性信号具有提示价值。

婴儿艰难梭菌定殖：DOHaD 框架的微生物延伸

PMID: 42800207整合了围产期至婴儿期艰难梭菌定殖的文献，指出高达50%的婴儿无症状携带艰难梭菌，但这一阶段的定殖与远期肥胖、特应性疾病等非传染性疾病风险相关。促进定殖的因素包括剖宫产、抗生素暴露、配方奶喂养、住院等；母乳喂养和有兄弟姐妹似乎有保护作用。文章特别指出双歧杆菌减少可能先于艰难梭菌定殖、且有临床试验数据支持这一序贯关系（PMID: 42800207）。这将艰难梭菌从"感染性腹泻病原体"重新定位为"生命早期微生物组编程因素"，为预防层面的早期干预提供了理论依据。

趋势判断

- 代谢物分辨率从"类别"提升到"分子种"。 **

过去几年，"SCFAs有益"或"色氨酸代谢受损"是文献中的标配表述。本月的CAR-T研究（PMID: 42805174）把分辨率推进到了具体分子：戊酸增强CAR-T效力，异戊酸削弱效力——同属短链/支链脂肪酸，效应方向相反。OCD研究（PMID: 42801575）中琥珀酸的路径与其他代谢物不同。这一变化有实际意义："补充SCFAs"这类宽泛干预措辞不再足够，靶向单一代谢物才可能产生可预期的结果。

- 菌群网络拓扑正在作为生物标志物框架浮现。 ** 结直肠癌研究（PMID: 42806489）用3807份宏基因组表明，物种间的共现与排斥结构比单一物种丰度更具跨队列稳定性。这一方法论转向若能标准化，可能影响接下来几年的非侵入性风险分层工具的设计逻辑，但同时带来了更高的计算复杂度和跨研究可比性要求。

- 无细胞微生物制剂的证据在积累。 ** 本月涉及非活菌形式干预的论文包括BEV（PMID: 42808771）、代谢物给药（PMID: 42805174、42801575、42801579）、天然提取物（PMID: 42805507、42801673）等。这部分反映出活菌疗法在监管路径和批次一致性上的现实阻力——研究者正在向更稳定的制剂形式转移。

- 综述密度提示领域进入整合期，但也带来风险。 ** 本月约三分之一论文是综述或方案论文，意味着原始数据已足以支撑系统性回顾。需要注意的是，部分综述在用"整合他人数据"替代"产生新数据"，其结论的可信度严格依赖所引用原始研究的质量，引用时需溯源到一级文献。

- 被高估的方向：多组学相关分析在单个研究中的结论效力。 ** PMID: 42805507明确指出"FDR校正后无相关保持显著"，但仍在摘要中进行了结论性叙述。这种做法在该领域相当普遍——先用FDR前结果建立叙事框架，再以"探索性"标签规避批评。把相关性发现纳入综述是合理的，但将其作为干预靶点设计的依据则言之过早。

这批研究的共同弱点

- 动物模型主导，外推至人的依据薄弱。 **

30篇中的机制性研究大量依赖小鼠（COPD、CUMS抑郁、OCD、ASD、AFB1肝损伤、EHEC O157:H7感染等），相当数量的"显著"结论仅来自十几只到几十只动物。这一局限在摘要中几乎不会被主动声明。

- 样本量系统性偏小。 ** 唯一称得上大样本的临床数据来自PMID: 42806489（3807人）和PMID: 42805174（129人）。其余人体研究多在百例以下，果胶RCT（PMID: 42803883）仅29人完成干预。如此规模不足以支持亚组分析或充分调整混杂因素，阳性结果的稳健性存疑。

- FMT作为因果工具的局限被系统性低估。** 本月至少四篇论文（PMID: 42734449、42801386、42801575、42801579）用FMT"证明"肠道菌群是效应的原因。FMT转移的不仅是细菌，还包括代谢物、病毒、噬菌体乃至宿主分泌的成分。用FMT复现表型只能说明"某些肠道相关因素"具有因果作用，不能将效应精确定位至细菌本身，更无法定位至特定菌种。

- 统计规范参差不齐，探索性与确证性混淆。** PMID: 42805507在FDR校正后所有相关均消失，但依然呈现了相关系数和解释性文字。这种做法在肠道菌群文献中相当普遍：研究者用未校正的关联建立叙事，再以"探索性"标签规避批评。阅读此类论文时，须区分正文中的"显著"是否经过多重比较校正。

- 干预标准化程度低，可重复性受限。** 本月多篇论文使用天然提取物（人参-五味子、原花青素、绿原酸联合黄芩苷）作为干预手段，提取物成分复杂，批次间一致性难以保证。此外，部分研究仅用16S rRNA扩增子测序描述菌群组成，功能分辨率明显低于宏基因组，但结论措辞往往不区分这两种方法的精度差距。

- 时间跨度过短。** 大多数干预研究持续4至8周，而衰弱、肿瘤、自闭症、强迫症等慢性病的生物学改变时间尺度远超于此。短期终点能否预测长期结局，在多数研究中未作讨论，对临床决策的参考价值因而有限。

下个月值得关注

- 戊酸的肠道来源与可干预性。** PMID: 42805174提供了方向，但产生戊酸的菌种、如何通过饮食结构或定向益生菌干预来提升戊酸水平、以及这一效应在不同瘤种中的适用边界，目前都是空白。接下来应会有团队快速进入机制填白阶段，该代谢物-疗效关联能否在独立队列复现是关键节点。

- 菌群网络拓扑框架的方法标准化。** PMID: 42806489的"跷跷板"结构若要成为通用工具，需要解决网络构建算法在不同测序深度和样本量下的偏差问题。能否出现一套被广泛认可的分析流程，将决定该类研究能否跨队列累积证据。

- BEV制备标准化。** PMID: 42808771揭示了给药途径的决定性作用，但BEV的分离、纯化和定量方法目前尚无统一标准，不同实验室产物的可比性存疑。若有团队发布制备规范并完成跨物种疗效对比，将是这一方向成熟的标志。

- 婴儿艰难梭菌定殖的前瞻性干预证据。** PMID: 42800207提示双歧杆菌减少可能先于艰难梭菌定殖，理论上早期补充双歧杆菌可作为预防靶点。目前证据以回顾性观察为主，前瞻性随机干预试验的数据是这一假说能否成立的关键。

- 琥珀酸作为OCD生物标志物的独立验证。** PMID: 42801575的AUC 0.73只是探索性起点，需要在不同种族和诊断标准的独立队列中复现，并与菌群组成数据联合分析，才能判断其作为临床分层工具的实际价值。

附录：2026-09 全部收录文献（500 篇）

#	标题	期刊	日期	PMID
1	Rectal ozone insufflation modulates gut microbiota: improving lung function in mice with chronic obstructive pulmonary disease.	Medical gas research	2027-Jan-0	42734449
2	Temporal succession of microbiomes and resistomes during buried rat carcass decomposition.	mSphere	2026-Sep-2	42584101
3	The role of vulvar, vaginal, and gut microbiota in the pathogenesis and clinical course of vulvar lichen sclerosis: a narrative review.	Ginekologia polska	2026-Sep-2	42806869
4	Computational approaches to predicting xenobiotic metabolism by the human gut microbiota.	Expert opinion on drug metabolism &	2026-Sep-2	42808159
5	Effect of a Novel Mediterranean-Style Diet (MIND-DASE) on Behavioural and Developmental Outcomes in Children With Autism Spectrum Disorder: A Propensity Score-Matched Analysis.	Journal of paediatrics and child health	2026-Sep-2	42808189
6	Systemically delivered Bacteroides thetaiotaomicron-derived bacterial extracellular vesicles inhibit primary and metastatic melanoma growth.	Microbiology spectrum	2026-Sep-2	42808771
7	Late-Onset Neonatal Sepsis: Contemporary Epidemiology, Diagnosis, Prevention, and Precision Therapeutics.	American journal of perinatology	2026-Sep-2	42601049
8	Anxiolytic and antidepressant effects of 1-phenyl-1-propanol-mediated bile acids in a chronic unpredictable mild stress mouse model.	International immunopharmacology	2026-Sep-2	42805062
9	Opposing functions of gut immunomodulatory metabolites on CAR-T therapy.	Cell	2026-Sep-2	42805174
10	Procyanidins and Bifidobacterium infantis alleviate anxiety and depression-like behavior in alcohol use disorder withdrawal mice via the gut-immune-brain axis.	Brain, behavior, and immunity	2026-Sep-2	42805421
11	Design of the comprehensive outcomes for after Cancer Health (COACH) trial: A randomized, wait-list control digital health coaching intervention for cancer survivors.	Contemporary clinical trials	2026-Sep-2	42805452
12	Ginseng-Schisandra ameliorates D-galactose-induced cognitive impairment in mice: Evidence from gut microbiota and metabolomic analyses.	Fitoterapia	2026-Sep-2	42805507
13	Psoriatic arthritis digital phenotyping and inflammation drivers (PDPID) study: protocol for an international multicentre prospective cohort.	BMJ open	2026-Sep-2	42805667
14	Microbial Signals in Gliomas: Mechanisms, Clinical Implications, and Future Perspectives.	Hematology/oncology clinics of North Ame	2026-Sep-2	42805862
15	Bifidobacteria: biogeography, host adaptation and ecological functions.	Nature reviews. Microbiology	2026-Sep-2	42806067
16	Gut Microbial Topology and Metabolic Signatures Associated With Colorectal Neoplasia.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42806489
17	Microbiota and nutrigenomics: beneficial allies or hidden threats.	Food & function	2026-Sep-2	42803158
18	Synbiotic supplementation may attenuate osteoporosis following spinal cord injury in a rat model.	The journal of spinal cord medicine	2026-Sep-2	42803436

#	标题	期刊	日期	PMID
19	Vascular effects of micro- and nanoplastics in humans: Systematic review.	Kardiologia polska	2026-Sep-2	42803455
20	Combined chlorogenic acid and baicalin supplementation alleviates PRRSV-induced disease by modulating immune responses and gut microbiota in weaned piglets.	Microbiology spectrum	2026-Sep-2	42803548
21	From dysbiosis to disease: the role of gut microbial communities in <i>Toxoplasma gondii</i> pathogenesis, zoonotic transmission, diagnostic innovation, and therapeutic outcomes.	Veterinary research communications	2026-Sep-2	42803857
22	The effect of pectin supplementation on geriatric individuals with frailty: a randomised placebo-controlled dietary intervention study.	GeroScience	2026-Sep-2	42803883
23	Polysaccharides as emerging functional food components for mood regulation: advances, mechanisms, and future perspectives.	Critical reviews in food science and nut	2026-Sep-2	42804354
24	Ingested microplastics and the gut-brain axis: A systematic review of mechanistic pathways and neurobiological impacts in human and preclinical models.	Neurotoxicology and teratology	2026-Sep-2	42801985
25	Reuterin alleviates Enterohemorrhagic <i>Escherichia coli</i> O157:H7-induced infectious diarrhea in mice through modulation of the gut microbiota.	World journal of microbiology & biot	2026-Sep-2	42801386
26	A Gut-Brain Axis Underlying Succinate-Associated Compulsive-Like Behavior.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42801575
27	Targeted Restoration of the Microbial Tryptophan Oxidative Pathway Ameliorates Autism-Like Behavioral and Synaptic Deficits.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42801579
28	Compound <i>Abrus cantoniensis</i> Extract Alleviates AFB1-Induced Liver Injury by Regulating PI3K-AKT Pathway and Gut Microbiota/Butyrate Metabolism.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42801673
29	A Tissue-Engineered In Vitro Intestinal Wall Model for Assessing the Immunomodulatory Activity of the Human Gut Microbiota.	Bulletin of experimental biology and med	2026-Sep-2	42799977
30	Developmental Origins of Health and Disease: The role of <i>Clostridioides difficile</i> Colonization of Gut Microbiota During Infancy.	Archives of medical research	2026-Sep-2	42800207
31	Protopine-induced neurotoxicity in female mice is associated with blood-brain barrier disruption, gut barrier impairment, cholinergic signaling alterations and gut microbiota dysbi	Neurotoxicology	2026-Sep-2	42800588
32	<i>Dendrobium</i> Polysaccharides as Anti-Diabetic Agents: Hypoglycemic Mechanisms, and Structure-Activity Relationships.	Journal of ethnopharmacology	2026-Sep-2	42800689
33	Difficult relationships between humans and bacteria: associations between multiple sclerosis and the human microbiome.	Antonie van Leeuwenhoek	2026-Sep-2	42791381
34	Humanizing <i>Zophobas morio</i> larvae microbiota for rapid screening of emerging decolonization strategies against multidrug-resistant bacteria.	European journal of clinical microbiolog	2026-Sep-2	42791458
35	Trimethylamine N-oxide promotes lymphoid differentiation of hematopoietic stem and progenitor cells.	Molecular immunology	2026-Sep-2	42790326

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36	The Gut-Liver Axis in Metabolic Dysfunction-Associated Steatotic Liver Disease and Associated Hepatocellular Carcinoma: Pathogenesis and Therapeutic Interventions.	The American journal of pathology	2026-Sep-2	42790639
37	Gut microbiota rescues vascular cognitive impairment by improving glymphatic function via the ILA-AHR-AQP4 pathway.	Pharmacological research	2026-Sep-2	42790831
38	Bioavailability of lead in contaminated soils elevated with high carbohydrate, protein, and fat diets via influences on gut microbiota and intestinal barrier function.	Environmental research	2026-Sep-2	42790852
39	Functional and Compositional Shifts in Lung and Gut Microbiota after One Year of Treatment with Highly Effective CFTR Modulators in Cystic Fibrosis.	Archivos de bronconeumologia	2026-Sep-2	42791132
40	Lactobacillus johnsonii attenuates chronic stress-induced ovarian dysfunction by modulating ovarian clock-related steroidogenic signaling.	Molecular human reproduction	2026-Sep-2	42791634
41	A flavonoid-rich medicinal herb extract ameliorates high-fat diet-induced obesity and insulin resistance in mice.	Acta biochimica et biophysica Sinica	2026-Sep-2	41772961
42	Dietary patterns, gut microbiota, and gastrointestinal disorders: mechanistic insights into irritable bowel syndrome and inflammatory bowel disease.	Reviews on environmental health	2026-Sep-2	42448648
43	Lactulose vs Lactobacillus acidophilus for patients with chronic kidney disease: A randomized controlled trial.	World journal of nephrology	2026-Sep-2	42626286
44	[Current status and prospects in the diagnosis and treatment of radiation-induced intestinal injury].	Zhonghua wei chang wai ke za zhi = Chine	2026-Sep-2	42751518
45	[Research progress on the mechanisms and clinical interventions of gut microbiota in radiation-induced intestinal injury].	Zhonghua wei chang wai ke za zhi = Chine	2026-Sep-2	42751519
46	Clinical severity score-guided metagenomic analysis identifying gut microbial taxonomic and functional markers for severe hepatitis E progression.	mSystems	2026-Sep-2	42788735
47	Oral vaccine delivery systems: Gastrointestinal barriers, gut microbiota, and emerging engineering strategies.	Cell reports	2026-Sep-2	42789394
48	Protective effects of selenium-modified Viola philippica polysaccharide-loaded yeast microcapsules against Salmonella Typhimurium infection in chicks.	Poultry science	2026-Sep-2	42804825
49	Gut microbiota dysbiosis is associated with the synaptic deficits and cognitive impairment induced by LCM mixtures within a proposed mechanistic framework consistent with the AOP c	Environment international	2026-Sep-2	42790240
50	Interleukin-17A mediates cardiorenal injury in oxalate nephropathy.	Cardiovascular research	2026-Sep-2	42417540
51	Beyond stool: sampling context and inferential scope in gut mechanistic studies.	Microbiology and molecular biology revie	2026-Sep-2	42615632
52	Dietary fibre blend improves gut health in patients with irritable bowel syndrome following a low FODMAP diet: a randomised, double-blind control trial.	European journal of nutrition	2026-Sep-2	42782339
53	Serum metabolomics and gut microbiota characterisation in patients with Sj ö gren disease complicated by anxiety disorder.	Acta microbiologica et immunologica Hung	2026-Sep-2	42784248
54	Faecal microbiota transplantation in irritable bowel syndrome (REFIT2): a randomised, double-blind, placebo-controlled, phase 3 trial.	Lancet (London, England)	2026-Sep-2	42785338

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55	Gut microbiota modulation, short-chain fatty acid (SCFA) production, and immune responses associated with structurally distinct peach pectin fractions.	International journal of biological macr	2026-Sep-2	42785409
56	Gut microbiome shifts in chronic systolic heart failure are associated with disease severity and clinical improvement.	Nature cardiovascular research	2026-Sep-2	42786289
57	Multi-modality profiling identifies <i>Neisseria flavescens</i> as a central geroprotective oral commensal in humans.	Nature aging	2026-Sep-2	42786310
58	Modified citrus pectin orchestrates hepatic redox homeostasis through an Alistipes dispar-nicotinamide-sirtuin 1 axis to mitigate metabolic dysfunction-associated steatotic liver d	Phytomedicine : international journal of	2026-Sep-2	42800459
59	Combined toxicity of co-exposure to polystyrene nanoplastics and arsenic on the gut-liver axis in mice.	Journal of hazardous materials	2026-Sep-2	42790037
60	Dietary modulation of intestinal microbes prolongs survival in a Hirschsprung disease mouse model.	Gastroenterology	2026-Sep-2	42777967
61	The Gut-Lung Axis in Respiratory Diseases: Mechanisms, Microbiome Dysbiosis, and Therapeutic Implications. A Comprehensive Review.	Respiratory medicine	2026-Sep-2	42778035
62	Bifidobacteria and Clostridioides difficile infection: review of emerging therapeutic perspectives.	Anaerobe	2026-Sep-2	42778087
63	IDO1 Integrates Gut Microbiota-Derived SCFAs Signals and Host WNT/TGF- β Pathways to Mediate the Anti-Colorectal Cancer Effects of Licorice Flavonoids.	Pharmacological research	2026-Sep-2	42778117
64	Long-term recovery and microbiota-gut-brain axis disruption after traumatic brain injury (OVERCOME-TBI): protocol for a prospective, observational clinical study.	BMJ open	2026-Sep-2	42778239
65	What does the gut microbiome teach us about osteoarthritis development and progression?	Best practice & research. Clinical r	2026-Sep-2	42778434
66	A methanogen hydrolase reveals the structure of archaeal peptidoglycan.	Nature	2026-Sep-2	42778595
67	Natural product therapy in diabetic kidney disease: emerging multiomics-mediated signalling pathway and molecular target.	Chinese medicine	2026-Sep-2	42778934
68	A microbiota-substrate-metabolite-target network suggests AKT1-associated links between gut microbiota-derived metabolites and osteoporosis.	International microbiology : the officia	2026-Sep-2	42773375
69	Structural and biochemical analysis of a B12 superbinder.	FEBS letters	2026-Sep-2	42775468
70	Parasite-associated microbiomes in Ascaris and Trichuris nematodes: current evidence, challenges, and future directions.	mSystems	2026-Sep-2	42775881
71	A novel human Streptomyces strain redresses malignancy by inducing apoptosis and regaining gut homeostasis.	mSystems	2026-Sep-2	42775892
72	Inulin ameliorates sarcopenic obesity: critical roles of gut microbiota and bile acid metabolism.	Food & function	2026-Sep-2	42776001
73	Metabolism of Nicotinamide Adenine Dinucleotide+ in Atherosclerosis: Mechanisms and Nutritional Modulation.	Nutrition reviews	2026-Sep-2	42776599
74	Alternate day fasting attenuates metabolic dysfunction-associated arterial thrombotic risk via increasing indole-3-propionic acid.	Cell reports	2026-Sep-2	42776840

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75	The modifiable effect of the Triglyceride-Glucose (TyG) index and the Dietary Index of Gut Microbiota (DI-GM) on the associations between conventional risk factors and stroke.	Nutricion hospitalaria	2026-Sep-2	41878926
76	Prebiotics in Food Fermentation and Bioprocessing: Advances and Applications.	Current pharmaceutical biotechnology	2026-Sep-2	42786825
77	Resveratrol's Therapeutic Role in Sepsis-Associated Encephalopathy.	CNS & neurological disorders drug ta	2026-Sep-2	42786856
78	Environmental-related concentrations of 6PPD-quinone drives intestinal toxicity via neutrophil extracellular traps: A novel mechanism of rubber-additive contamination.	Ecotoxicology and environmental safety	2026-Sep-2	42777651
79	Intersections of gastrointestinal dysbiosis of the gut microbiome and aging.	World journal of gastrointestinal pathop	2026-Sep-2	42781255
80	Near-infrared-II fluorescent quantum dots for in vivo tracking of colonization dynamics of transplanted gut microbiota.	Biomaterials science	2026-Sep-2	42771339
81	Nanoparticle Pharmacomicrobiomics: Reprogramming the Microbiome-Immune Axis for Cancer Immunotherapy.	Pharmacological research	2026-Sep-2	42772429
82	Tea polyphenols alleviate intestinal barrier injury, regulate ERK/NF- κ B pathway, and restore gut microbiota in perfluorooctanoic acid-exposed mice.	Food and chemical toxicology : an intern	2026-Sep-2	42772500
83	Association between probiotics and 28-day mortality in critically ill adults: A retrospective cohort study.	JPEN. Journal of parenteral and enteral	2026-Sep-2	42773794
84	Profiling the aromatic amino acid metabolome in the human gut microbiota reveals Clostridioides difficile-specific N-acyl amino acids.	mSystems	2026-Sep-2	42573234
85	Integrated multi-omics analysis identifies microbial and metabolic signatures and drivers of CNS autoimmunity.	mSystems	2026-Sep-2	42578693
86	Fermentation capacity of the gut microbiota influences exercise motivation and neuroendocrine integration.	mSystems	2026-Sep-2	42615618
87	Probiotics as Functional Dietary Interventions for Gut Health, Immune Modulation, and Overall Well-Being: A Systematic Review.	Clinical pediatrics	2026-Sep-2	42770647
88	Fecal filtrate transplantation attenuates liver and gut injury in experimental alcohol-associated liver disease.	Microbiology spectrum	2026-Sep-2	42770722
89	An atlas of colonization factors in the mouse gut microbiome reveals phylogenetically structured repertoires and infection-stage-associated variation during Toxoplasma gondii infec	Microbiology spectrum	2026-Sep-2	42770724
90	Metabolomic signatures associated with probiotic use in atopic dermatitis: An exploratory study.	Journal of pharmaceutical and biomedical	2026-Sep-2	42800464
91	Exercise and Intestinal Barrier Integrity: Molecular Mechanisms and Therapeutic Potential in Gut Health and Disease.	Biology	2026-Sep-2	42792617
92	Mechanisms of Brain Aging and Their Links to Alzheimer's and Parkinson's Disease Pathology.	International journal of molecular scien	2026-Sep-2	42794852
93	Clinical Subtype Stratification Reveals Gut Microbial Alterations, Candidate Markers, and Co-Occurrence Network Remodeling in Coronary Artery Disease.	Microorganisms	2026-Sep-2	42795697
94	Searching for Metabolic Markers for Hypertension in Human Urine.	Molecules (Basel, Switzerland)	2026-Sep-2	42796632

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95	Plant-Derived Protein Hydrolysates and Bioactive Peptides for Restoring Gut Health in Undernutrition: A Scoping Review of Intestinal Barrier Protection, Inflammatory Signaling, and	Nutrients	2026-Sep-2	42797076
96	Trends and Approaches in Obesity and Overweight Research Focused on White Adipose Tissue and Browning: A Bibliometric Study.	Obesity reviews : an official journal of	2026-Sep-2	42786995
97	Gut microbiota regulation of the IL-6/STAT3 pathway: Linking hematopoiesis to colorectal cancer progression.	International immunopharmacology	2026-Sep-2	42767102
98	Letter to the Editor: The Gut Microbiome-Endocrine Axis in Obesity: Mechanisms and Therapeutics.	Journal of gastroenterology and hepatolo	2026-Sep-2	42767274
99	Bioaccumulation of Three Typical Antibiotics in the Edible Bivalve Tegillarca granosa: Potential Mechanisms and Human Health Implications.	Environmental pollution (Barking, Essex	2026-Sep-2	42767355
100	From dysbiosis to postoperative neurocognitive disorders: The anesthesia-disrupted microbiota-gut-brain axis.	Experimental neurology	2026-Sep-2	42767440
101	Hospitalisation in cirrhosis is linked to distinct gut microbiome structural and functional profiles: a multinational metagenomic study.	Gut	2026-Sep-2	42767827
102	Characterization and correlation of gut microbiota in major depressive disorder patients with suicidal ideation.	BMC psychiatry	2026-Sep-2	42768327
103	Food derived raffinose attenuates cyclophosphamide-induced immunosuppression in mice with associated changes in gut microbiota, short-chain fatty acids and intestinal barrier integ	Journal of the science of food and agric	2026-Sep-2	42768415
104	Trimethylamine N-oxide, a Gut Microbiota Metabolite, Promotes Diabetes-Mediated Erectile Dysfunction via a PANoptotic-Like Process Involving Pyroptosis, Apoptosis, and Necroptosis	Andrology	2026-Sep-2	42768800
105	Adjunctive psychobiotic Lactiplantibacillus plantarum PS128 ameliorates gastrointestinal comorbidities and alters circulating miRNAs and gut microbiota in children with Tourette sy	Food & function	2026-Sep-2	42626970
106	Polycyclic aromatic hydrocarbons, gut microbiome composition, impulsivity, and attention covary in a human cohort.	Microbiology spectrum	2026-Sep-2	42765732
107	Role of sex and gender in autoimmune thyroid diseases: mechanisms and knowledge gaps.	Reviews in endocrine & metabolic dis	2026-Sep-2	42766068
108	Effect of probiotic supplementation on psychological stress in healthy adults with moderate stress levels: a randomised, double-blind, placebo-controlled clinical trial.	Nutritional neuroscience	2026-Sep-2	42766151
109	The Potential Role of the Gut-Vascular Axis in Ciprofloxacin-Associated Aggravation of Aortic Dissection.	Cardiovascular toxicology	2026-Sep-2	42766226
110	Ginsenoside Rk3 modulates glutamine metabolism and inhibits Th17 cell differentiation via gut microbiota regulation to ameliorate psoriasis.	Journal of natural medicines	2026-Sep-2	42766261
111	Effect of Sucralose Consumption on Gut Microbiota: A Systematic Review and Meta-Analysis of Randomized Controlled Trials.	International journal of molecular scien	2026-Sep-2	42794802
112	Microbiota-Associated Amino Acid Metabolites in Inflammatory Bowel Disease: Emerging Key Players in the Host-Microbe Interface.	Microorganisms	2026-Sep-2	42795689

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113	Effects of Heat-Killed Bifidobacterium breve B-3, a Postbiotic, on Muscle Mass-Related Parameters in Patients with Sarcopenia: A Randomized, Double-Blind, Placebo-Controlled Pilot	Nutrients	2026-Sep-2	42797058
114	Probe-Based Confocal Laser Endomicroscopy During Immune Checkpoint Inhibitor Therapy: A Translational Framework Linking Intestinal Barrier Function, Microbiota, and Clinical Outcom	Nutrients	2026-Sep-2	42797069
115	Celastrol Attenuates Doxorubicin-Induced Heart Failure by Preserving Mitochondrial Integrity and Suppressing Oxidative Stress and Is Accompanied by Changes in Gut Microbiota.	Pharmaceuticals (Basel, Switzerland)	2026-Sep-2	42797540
116	Novel L-Asparaginases from the human gut microbiome: Genome mining, biochemical characterization, and in vitro anti-leukemic activity.	Bioorganic chemistry	2026-Sep-2	42767176
117	The stems of Syringa pinnatifolia alleviate insomnia based on the brain-gut-microbiota axis mediated by 5-HT in mice and rats.	Brain research bulletin	2026-Sep-2	42764079
118	Advanced Detection and Monitoring of Foodborne Pollutants: Connecting Dietary Exposure to Health Risks.	Journal of applied toxicology : JAT	2026-Sep-2	42764241
119	Mechanism of soluble dietary fiber from foxtail millet alleviating chronic colitis by reshaping intestinal fungi.	Journal of the science of food and agric	2026-Sep-2	42764262
120	Eco-corona: A new frontier in understanding micro- and nanoplastic-gut interactions.	World journal of methodology	2026-Sep-2	42626206
121	Beyond the blood-brain barrier: humanised mice, the missing link in glioblastoma research.	Oncogene	2026-Sep-2	42763326
122	Next-generation fermented foods from non-conventional proteins: Linking fermentation dynamics, flavor chemistry, and gut microbiome modulation.	International journal of food microbiolo	2026-Sep-1	42790302
123	Combined Probiotics and Antioxidants Attenuate LPS-Induced Acute Intestinal Inflammation via Multi-Pathway Regulation in a Preventive Mouse Model.	Antioxidants (Basel, Switzerland)	2026-Sep-1	42792239
124	Gut Microbiota in Heart Failure with Preserved Ejection Fraction: Clinical Phenotyping and Therapeutic Opportunities.	Biomedicines	2026-Sep-1	42792863
125	Multidimensional Physiological and Gut Microbiome Profiling Identifies Subtle Physiological Patterns in an Apparently Healthy Aging Indian Cohort: A Cross-Sectional Observational S	Microorganisms	2026-Sep-1	42795676
126	Effect of Non-viable Probiotics on Obesity-Related Outcomes in Rodent Models: A Systematic Review and Meta-Analysis.	Probiotics and antimicrobial proteins	2026-Sep-1	42762432
127	Zearalenone exposure is associated with increased tumor burden and coordinated host-microbiota-metabolic alterations in colitis-associated colorectal cancer.	Ecotoxicology and environmental safety	2026-Sep-1	42762577
128	Rapidly Fermentable Prebiotic Substrates: Benefits, FODMAP Effects and Host Tolerance.	Clinical nutrition ESPEN	2026-Sep-1	42762890
129	Role of gut microbiome modulation in the attenuation of aging-related neuroinflammation in early brain injury after subarachnoid hemorrhage.	Brain research	2026-Sep-1	42762960
130	The Role of the Microbiome in Lichen Sclerosus: Pathophysiological Insights and Therapeutic Implications.	Dermatology and therapy	2026-Sep-1	42763356
131	Ferroptosis and Ferro-Aging in Obesity: Bibliometric Mapping, Shared Mechanisms, and Translational Perspectives.	Metabolites	2026-Sep-1	42783816

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132	Ultra processed microbiome: Effects of dietary Stable Carbonyl adducts (SCars) on developing microbiota of mice.	bioRxiv : the preprint server for biolog	2026-Sep-1	42779957
133	Validating a high-throughput in vitro model for culturing antibiotic-altered microbiome communities.	bioRxiv : the preprint server for biolog	2026-Sep-1	42780034
134	The Human Microbiome in Airborne Particulate Matter-Associated Aging-Related Chronic Diseases: An Evidence-Stratified Review.	Environment & health (Washington, D.	2026-Sep-1	42775205
135	Potential links between gut microbiota-derived propionate and succinate and CXCL8, IL1B, and IL6 in NMOSD: An integrated network pharmacology and mendelian randomization study.	Journal of neuroimmunology	2026-Sep-1	42763988
136	Microbiota-derived tryptophan metabolites shape Th2 lymphocyte responses via the aryl hydrocarbon receptor and metabolic reprogramming.	Mucosal immunology	2026-Sep-1	42759612
137	Inflammation-responsive sodium alginate-based microalgal hydrogel with pH/ROS dual sensitivity for oral colon-targeted therapy of ulcerative colitis.	International journal of biological macr	2026-Sep-1	42759631
138	Faecalibacterium prausnitzii and its metabolite butyrate ameliorate psychological stress-induced obesity.	Brain, behavior, and immunity	2026-Sep-1	42759821
139	Cohort profile: Infant Gut Bacterial Study in Pakistan (INBUGS-P) longitudinal birth cohort.	BMJ open	2026-Sep-1	42760068
140	The gut-prostate axis in benign prostatic diseases: Mechanistic pathways and therapeutic implications.	iScience	2026-Sep-1	42707073
141	Metabolomic-microbiomic integrated analysis reveals the role of intermittent energy restriction in Parkinson's disease.	Neurodegenerative disease management	2026-Sep-1	42755373
142	Bacteriophages in humans: From discovery and mechanisms to therapeutic promise in combating disease.	Chinese medical journal	2026-Sep-1	42755378
143	Dietary flavonoids target the gut-liver axis for the management of cholestatic liver injury.	Food & function	2026-Sep-1	42757575
144	Gut microbiota-mediated dietary lignans metabolism drives accumulation of N,N-dimethylsphingosine and sensitizes triple-negative breast cancer to paclitaxel.	Food & function	2026-Sep-1	42758081
145	Black rice wine attenuates cognitive decline via modulation of the microbiota-gut-brain axis in D-galactose-induced aging mice.	Food & function	2026-Sep-1	42758096
146	Gut microbiome dysbiosis is associated with aldosterone overproduction in idiopathic hyperaldosteronism.	iScience	2026-Sep-1	42741704
147	Skin and Gut Microbiome Features Associated with Resistance to Corynebacterium bovis -Associated Disease in Nude Mice (Mus musculus).	bioRxiv : the preprint server for biolog	2026-Sep-1	42780003
148	Clinical and mechanistic responses to a music-based intervention for pain in adults with irritable bowel syndrome: Protocol for a single-arm pilot study.	medRxiv : the preprint server for health	2026-Sep-1	42780104
149	Age-associated Akkermansia muciniphila decline links to brown adipose tissue aging: AKK supplementation improves BAT metabolic function.	Beneficial microbes	2026-Sep-1	42767634
150	The association between gut microbiota and delirium: A systematic review.	Experimental gerontology	2026-Sep-1	42753935
151	Oral supplementation of 6'-sialyllactose in early-life enhances cognitive function in mice via modulating gut microbiota and promoting brain myelination.	Journal of dairy science	2026-Sep-1	42754030

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152	Gut microbiome dysbiosis, short-chain fatty acid depletion and implications for neuroinflammation in atypical parkinsonian syndromes - a systematic review of patient cohorts.	Journal of Parkinson's disease	2026-Sep-1	42754368
153	Micronutrients, the gut microbiota, and infection susceptibility in infants.	Trends in microbiology	2026-Sep-1	42754484
154	Efficacy of Bifidobacterium animalis subsp. lactate BL-99 in relieving functional constipation: a randomized placebo-controlled clinical trial.	Food & function	2026-Sep-1	42751774
155	Multi-omics insights into growth impairment mechanisms in children with persistent diarrhea.	Microbiology spectrum	2026-Sep-1	42752205
156	Natural Polysaccharides for Rheumatoid Arthritis Therapy: Mechanism, Drug Delivery and Clinical Application.	Phytotherapy research : PTR	2026-Sep-1	42752905
157	Sodium L-lactate alleviates DSS-induced colitis through gut microbiota remodeling and Akkermansia enrichment.	International immunopharmacology	2026-Sep-1	42748780
158	Akkermansia muciniphila attenuates anti-tuberculosis drug-induced liver injury through gut-liver axis by promoting Nr4a1 transcription.	European journal of pharmacology	2026-Sep-1	42749008
159	Colon-targeted EGCG delivery remodels the gut microenvironment to enhance therapeutic efficacy in ulcerative colitis.	Journal of controlled release : official	2026-Sep-1	42749134
160	Longitudinal gut microbiome dynamics during immunotherapy identify microbial features of clinical benefit in advanced primary liver cancer.	Gut	2026-Sep-1	42749361
161	Early-Onset Colorectal Cancer: Clinical and Molecular Features with Emerging Insights from Comprehensive Genomic Profiling.	Oncology and therapy	2026-Sep-1	42749910
162	Microplastics-Mediated Gut Microbial Dysbiosis and Cellular Bioenergetic Impairment: A Critical Review.	Journal of applied toxicology : JAT	2026-Sep-1	42750367
163	Microbiome and atherosclerosis: hype or future therapeutic target?	Journal of basic and clinical physiology	2026-Sep-1	42740641
164	Microbial diversity: the essential foundation for life on our planet.	Biologia futura	2026-Sep-1	42744991
165	In vitro digestion and fecal fermentation profiles of Cremastra appendiculata polysaccharide and evaluation of its antioxidant and hypoglycemic capacities.	Journal of applied microbiology	2026-Sep-1	42747187
166	Castration-resistant prostate cancer as an adaptive tumor ecosystem: coupling tumor evolution with microenvironmental reprogramming.	Cancer metastasis reviews	2026-Sep-1	42747576
167	Chronic administration of a calafate (Berberis microphylla) polyphenol-rich extract modulates gut microbiota and metabolic homeostasis associated with thermogenic activation in hig	Journal of physiology and biochemistry	2026-Sep-1	42747643
168	Puerarin alleviates bisphenol S induced neurobehavioral impairments via remodeling the gut-brain axis and activating the BDNF/TrkB/CREB pathway.	Ecotoxicology and environmental safety	2026-Sep-1	42623750
169	Insights into the dynamics of antibiotic resistance genes in the human gut microbiome across populations.	Gut pathogens	2026-Sep-1	42768386
170	Current Management of Primary Sclerosing Cholangitis (PSC) ~A Proposal for Early-stage PSC~.	Internal medicine (Tokyo, Japan)	2026-Sep-1	42749644

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171	Lipid Metabolic Reprogramming in Colorectal Cancer: A Central Hub Integrating Diet, Microenvironment, and Therapy Resistance.	Critical reviews in oncology/hematology	2026-Sep-1	42744131
172	EpOMEs Compromise Colonic Homeostasis Through Microbiome Dysbiosis and Inflammatory Activation.	Prostaglandins & other lipid mediato	2026-Sep-1	42744188
173	A prospective randomized controlled pilot study of gut microbiome modulation by <i>Nigella sativa</i> seed oil and thymoquinone metabolism in healthy volunteers: implications for gastroin	Scientific reports	2026-Sep-1	42744850
174	Dietary index for gut microbiota (DIGM) and cardiometabolic, inflammatory, and gut-brain-related biomarkers in adults with obesity: a cross-sectional study.	Scientific reports	2026-Sep-1	42744874
175	Novel Ferulic Acid Esterase From Human Gut Microbiome: Cloning and Application in Crop Residue Valorization.	Biotechnology and applied biochemistry	2026-Sep-1	42745387
176	Correlational Analysis of Qiming Granule with the CMKLR1-Centered Network and Systemic Inflammation via the Gut-Retina Axis in Diabetic Retinopathy.	Journal of visualized experiments : JoVE	2026-Sep-1	42747059
177	Long-Term Effects of Bariatric Surgery on Type 2 Diabetes: Mechanisms, Outcomes, and Clinical Implications: A Focused Review.	Journal of visualized experiments : JoVE	2026-Sep-1	42747104
178	gutSMASH 2.0: Extended Identification of Primary Metabolic Gene Clusters From the Human Gut Microbiota.	Journal of molecular biology	2026-Sep-1	41317787
179	Targeted catalytic eradication of antibiotic-resistant <i>Helicobacter pylori</i> by a pH-activated Fe-doped nanozyme.	Journal of colloid and interface science	2026-Sep-1	42008939
180	Oroxin A in Linggui Zhugan Decoction in the treatment of MASH by regulating cholesterol-bile acid metabolism.	Journal of ethnopharmacology	2026-Sep-1	42061563
181	Mechanisms of Wu Zhuyu Decoction in the treatment of hepatocellular carcinoma: An integrative review of ethnopharmacology, pharmacological actions, and clinical potential.	Journal of ethnopharmacology	2026-Sep-1	42081957
182	Processing with <i>Cuscuta chinensis</i> Lam. juice mitigates <i>Tripterygium wilfordii</i> Hook.F. toxicity via a multi-mechanistic approach and enhances its anti-rheumatic efficacy.	Journal of ethnopharmacology	2026-Sep-1	42086154
183	Targeting atherosclerosis with medicine and food homology substances: Mechanistic insights and application strategies.	Journal of ethnopharmacology	2026-Sep-1	42128075
184	<i>Poria cocos</i> polysaccharides alleviate colitis via the tryptophan metabolism-AhR-redox axis.	Journal of ethnopharmacology	2026-Sep-1	42128077
185	A neutral polysaccharide from the pulp of <i>Trichosanthes kirilowii</i> Maxim mitigates constipation through microbiota-dependent activation of brain-gut axis.	Journal of ethnopharmacology	2026-Sep-1	42134502
186	Synthesis of acetylated raffinose and its mechanism of action in regulating gut microbiota to alleviate cyclophosphamide-induced immunosuppression in mice.	Bioorganic chemistry	2026-Sep-1	42242014
187	Dipsacoside B alleviates experimental colitis by reshaping gut microbiota and metabolically regulating the balance of macrophage polarization.	International immunopharmacology	2026-Sep-1	42248125
188	Gut microbiome-derived metabolites as predictors of bariatric surgery outcomes.	Clinica chimica acta; international jour	2026-Sep-1	42251923

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189	Gut microbiota-derived tryptamine activates AhR-NRF2 signaling to modulate airway epithelial barrier function in allergic asthma.	International immunopharmacology	2026-Sep-1	42259240
190	ACAT3 controls hepatic cholesterol metabolism and modulates systemic energy homeostasis of male mice.	Life sciences	2026-Sep-1	42264322
191	Lycium ruthenicum Murray anthocyanins alleviate neuroinflammation in MPTP-induced Parkinson's disease by modulating gut microbiota and tryptophan metabolism.	International immunopharmacology	2026-Sep-1	42322853
192	Multi-scale structural evolution and fermentation characteristics of four types of lentil resistant starches by human gut microbiota in vitro.	Food chemistry	2026-Sep-1	42341668
193	Nutrients and bioactive compounds in nuts: implications for human health.	Food chemistry	2026-Sep-1	42364470
194	Glycosidic linkage-dependent fermentation of polysaccharide mixtures by human gut microbiota in vitro.	Carbohydrate polymers	2026-Sep-1	42493079
195	Structural characterization of the pectic polysaccharide from corn silk and its protective mechanism against MASLD via regulation of the gut-liver axis.	Carbohydrate polymers	2026-Sep-1	42493082
196	Capsular polysaccharides of the human gut microbiota: Structural diversity, functional plasticity, and roles in host-microbe mutualism.	Carbohydrate polymers	2026-Sep-1	42493158
197	Wastewater-based human gut microbiome surveillance links microbial signatures to population health in Ohio communities.	Environmental research	2026-Sep-1	42520903
198	Micro(nano)plastics as dynamic vectors for hazardous agents: Bridging environmental transport to health impacts.	Environmental research	2026-Sep-1	42542225
199	Microplastics as vectors for microbial pollutants: Biofilm-associated transfer of pathogens and antibiotic resistance genes in zebrafish intestine.	Journal of hazardous materials	2026-Sep-1	42623874
200	Bacillus amyloliquefaciens K309 promotes copper detoxification in vivo through concerted biosorption and microbial metabolism.	Journal of hazardous materials	2026-Sep-1	42679566
201	Bile Acid Metabolism as a Unifying Readout for Diet, Microbiome Function, and Gastrointestinal Disease.	FASEB journal : official publication of	2026-Sep-1	42687847
202	Non-invasive tests for early-stage liver fibrosis: Current advances and challenges.	Chinese medical journal	2026-Sep-1	42740701
203	Dietary bioactive compounds modulate intestinal stem cells to alleviate colorectal lesions.	Critical reviews in food science and nut	2026-Sep-1	42741799
204	Intestinal Serotonergic Vagal Signaling as a Mediator of Microbiota-Induced Hypertension.	Circulation	2026-Sep-1	42741853
205	Donor Microbiota Features Associated With Liver Transplant Recipient Infectious Complications: A Pilot Study Using Deep Intestinal Sampling During Liver Procurement.	Transplant infectious disease : an offic	2026-Sep-1	42742049
206	Gut microbiota modulates Hyodeoxycholic Acid to Inhibit Leukemia Development.	Clinical science (London, England : 1979	2026-Sep-1	42742127
207	Effect of Lactiplantibacillus plantarum SCS6 on pancreatic oxidative damage in mice with type 2 diabetes based on gut-pancreas axis.	Antonie van Leeuwenhoek	2026-Sep-1	42742757

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208	Beyond the barrier: Engineering the tumor-immune-soil nexus-a mechanistic blueprint for integrating Traditional Chinese Medicine with immunotherapy in metastatic colorectal cancer.	Medical oncology (Northwood, London, Eng	2026-Sep-1	42742786
209	Size-tailored nanoparticle-antibody conjugates overcome hepatic sequestration in Alzheimer's disease treatment.	Proceedings of the National Academy of S	2026-Sep-1	42709795
210	Disturbances of the placenta-brain axis in germ-free pregnant mice † .	Biology of reproduction	2026-Sep-1	42133581
211	Structural characterization and gut modulatory activity of an arabinogalactan-rich polysaccharide from Chimonanthes salicifolius in DSS-challenged mice.	International journal of biological macr	2026-Sep-1	42735763
212	Gut Microbiota Dysregulation in Dementia: Molecular Mechanism Linking the Gut-Brain Axis to Neurodegeneration.	Ageing research reviews	2026-Sep-1	42735872
213	Immunoregulatory role of quercetin in lung cancer.	Cell death discovery	2026-Sep-1	42736283
214	Gut single-microbe landscape in patients with major depressive disorder and bipolar disorder.	Molecular psychiatry	2026-Sep-1	42736349
215	Obstructive sleep apnea, GLP-1 receptor agonist pharmacotherapy, and the oral microbiome: competing biological influences and implications for oral health monitoring.	Clinical oral investigations	2026-Sep-1	42734711
216	Gut microbiota composition across clinical subtype and antibody burden in myasthenia gravis.	Journal of neuroimmunology	2026-Sep-1	42743755
217	Multifunctional Zinc Glycyrhizinate-Integrated Gel for Enhanced Probiotic Delivery and Alleviation of Acute and Spontaneous Colitis.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-1	42733275
218	Optimization of the preparation of Gastrodia elata polysaccharide and investigation of their immunostimulatory activity in mice.	Ultrasonics sonochemistry	2026-Sep-1	42735669
219	A Reassessment of Prophylactic Antibiotics in Low-Infection-Risk Electrophysiology Procedures.	Pacing and clinical electrophysiology :	2026-Sep-1	42730595
220	Safety and Efficacy of Lactocaseibacillus rhamnosus LRA05, Limosilactobacillus reuteri LR08 and Lactobacillus crispatus LCR86 on Hormone Metabolism, Body Composition, and Emotional	Journal of applied microbiology	2026-Sep-1	42731127
221	Gut microbiota-derived indole-3-propionic acid suppresses osteoclast formation by promoting IL-10+ Breg differentiation via AhR signaling.	International immunopharmacology	2026-Sep-1	42731466
222	Safety evaluation of yeast β -glucan at elevated dose levels: toxicological and gut microbiota analyses.	Regulatory toxicology and pharmacology :	2026-Sep-1	42731611
223	Diallyl sulfide pretreatment protects against DSS-induced colitis by reshaping the gut microbiota and enhancing microbiota-associated tryptophan metabolism.	Journal of ethnopharmacology	2026-Sep-1	42731716
224	Bidirectional Regulation of Stress Responses by the Microbiota-Gut-Brain Axis: Molecular Mechanisms and Therapeutic Perspectives.	Physiology & behavior	2026-Sep-1	42731747
225	In vitro approaches for modelling gut-liver crosstalk in drug-induced liver injury.	Archives of toxicology	2026-Sep-1	42731995
226	Aerobic exercise and the gut-brain axis in Alzheimer's disease: Mechanistic perspectives, evidence appraisal, and future directions.	Ageing research reviews	2026-Sep-1	42727647

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227	Repurposing antimicrobial agents for neuroprotection: Mechanisms, clinical potential, and challenges.	Neuroprotection (Chichester, England)	2026-Sep-1	42729937
228	Research Trends and Mechanistic Insights Into Natural Medicines for Alzheimer's Disease: A Bibliometric Analysis and Narrative Review.	Phytotherapy research : PTR	2026-Sep-1	42730515
229	Standardized Workflow for Human Fecal Sample Collection and Automated Deoxyribonucleic Acid Extraction Using a Magnetic Particle Processor.	Journal of visualized experiments : JoVE	2026-Sep-1	42730659
230	Tranexamic acid to prevent anastomotic leak after rectal cancer surgery: protocol for a feasibility trial with embedded mechanistic analysis of the microbiome.	BMJ open	2026-Sep-1	42731830
231	Microbiome Crosstalk Across Oral, Gut, and Breast Niches: Implications for Breast Cancer Diagnosis, Prevention, and Therapy.	Translational research : the journal of	2026-Sep-1	42727634
232	Advances on Biosynthesis of Human Milk Oligosaccharides.	Advances in biochemical engineering/biot	2026-Sep-1	42720749
233	Adhesion-Enhanced Engineered Probiotic for Prolonged Intestinal Retention and Calprotectin-Responsive IBD Therapy.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-1	42725754
234	Microbiota-derived indole metabolites from Polygonatum cyrtonema polysaccharides fermentation alleviate colitis via Bifidobacterium pseudolongum and PPAR γ activation.	Food & function	2026-Sep-1	42725845
235	Safety Assessment on Probiotic Mixture "Prohep" and Longitudinal Evaluation on its Gut Microbial Modulation Ability in Mice.	Probiotics and antimicrobial proteins	2026-Sep-1	42726465
236	SPFuseRanker: A Multi-Importance Score Fusion Framework for Core Microbiome Identification in Metagenomic Data.	IEEE transactions on computational biolo	2026-Sep-1	42726613
237	Gut microbiota-derived short-chain fatty acids (SCFAs): immunomodulatory effects and therapeutic potential in infections.	Clinical microbiology reviews	2026-Sep-1	42267834
238	The gut microbiome in preterm infants: development, dysbiosis, and disease implications.	Clinical microbiology reviews	2026-Sep-1	42294884
239	Systems engineering of engineered live biotherapeutics: A discovery-to-translation framework for streamlining microbiome therapeutic development.	Journal of controlled release : official	2026-Sep-1	42409242
240	Bilateral intranigral α -synuclein seeding in A53T transgenic mice drives early Parkinsonism and concurrent gut dysbiosis.	Biochemical and biophysical research com	2026-Sep-1	42419222
241	Hydrogen-rich jelly attenuates adipose tissue inflammation and metabolic dysfunction in high-fat/high-sucrose diet-fed SAMP8 mice.	Biochemical and biophysical research com	2026-Sep-1	42430878
242	Gut dysbiosis and jejunal injury in olfactory dysfunction: Experimental characterization and genetic epidemiological evidence.	Biochemical and biophysical research com	2026-Sep-1	42468379
243	Translating gut microbiome research into therapies for type 1 diabetes.	Experimental physiology	2026-Sep-1	42717808
244	Extension of host lifespan by polyamines derived from gut bacteria.	mBio	2026-Sep-1	42720309

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245	Lycopene mitigates T-2 toxin-induced systemic inflammation and oxidative stress in association with gut microbiota and SCFAs regulation in mice.	Stress biology	2026-Sep-1	42720699
246	Genetic variation in glucosamine metabolism contributes to the colonization resistance of Bacteroides to Salmonella.	Cell reports	2026-Sep-1	42721036
247	The Association Between Attention-Deficit Hyperactivity Disorder and Gastrointestinal Symptoms: A Systematic Review and Meta-Analysis.	Journal of attention disorders	2026-Sep-1	42722013
248	Early gut microbiome metabolites and diversity predict GVHD-free survival after allogeneic hematopoietic cell transplantation.	Transplantation and cellular therapy	2026-Sep-1	42722156
249	Mannatide modulates immune response and gut microbiota in cyclophosphamide-induced immunosuppressed BALB/c mice.	International journal of biological macr	2026-Sep-1	42722258
250	Molecular pathways linking the gut microbiome to antitumor immunity.	Trends in microbiology	2026-Sep-1	42722574
251	[Mechanisms of exercise-induced improvement in drug addiction via the gut microbiota: a review].	Zhejiang da xue xue bao. Yi xue ban = Jo	2026-Sep-1	42722624
252	Hypouricemic effect and mechanism of chitooligosaccharide-ionic water in hyperuricemic mice.	Journal of the science of food and agric	2026-Sep-1	42723092
253	EXPRESS: Rapamycin increases cerebral blood flow and modulates metabolic, inflammatory, and microbiome profiles in healthy middle-aged APOE4 carriers: a pilot single-arm trial.	Journal of cerebral blood flow and metab	2026-Sep-1	42723264
254	Gut microbiota on sleep disorders throughout the lifespan.	Microbiological research	2026-Sep-0	42735570
255	Multi-omics based mechanistic study of Fufang Xuelian capsule in treating ankylosing spondylitis via the gut-joint axis.	Journal of chromatography. B, Analytical	2026-Sep-0	42731424
256	Sex differences in gallstone formation in mice on a lithogenic diet are driven by gut microbiota-mediated bile acid metabolism.	Biochimica et biophysica acta. Molecular	2026-Sep-0	42715739
257	Emulsified Mulberry Extract Alleviates CUMS-Induced Anxiety- and Depressive-Like Behaviors in Mice in Association with Gut Microbiota and Short-Chain Fatty Acids.	Journal of agricultural and food chemist	2026-Sep-0	42715956
258	Short-Term Success, Long-Term Failure: Strain Turnover and Virulence Re-Emergence May Drive Relapse in Pouchitis.	Gastroenterology	2026-Sep-0	42716140
259	Chronic psychological stress impairs sperm quality via a gut-endotoxin-testis axis.	Brain, behavior, and immunity	2026-Sep-0	42716143
260	Microbial and inflammatory features linked to distal sensory polyneuropathy in people with HIV.	Brain, behavior, and immunity	2026-Sep-0	42716144
261	Synergistic protective effects of pine pollen extract and fucoidan on adriamycin-induced acute kidney injury via regulation of oxidative stress and inflammatory pathways.	International journal of biological macr	2026-Sep-0	42716167
262	Novel insight into the effects of the metabolites from gut microbiota in both unmedicated depressive adolescents and mice: key roles of indole derivatives-aryl hydrocarbon receptor	Molecular psychiatry	2026-Sep-0	42716958
263	A secreted protein from Hungatella hathewayi inhibits colorectal cancer by reprogramming intratumoral CD14b+ macrophages.	Cell reports	2026-Sep-0	42721032
264	Combined administration of fructooligosaccharides and Clostridium butyricum attenuates bowel cleansing-induced dysbiosis and safeguards mucosal defense in a murine model.	Clinical science (London, England : 1979	2026-Sep-0	42550055

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265	Secreted nuclease effector neutralization by active site mimicry in <i>Bacillota</i> .	mBio	2026-Sep-0	42606298
266	Microbial and functional shifts between flare and remission in a single-center cohort of children with inflammatory bowel disease.	World journal of clinical pediatrics	2026-Sep-0	42626304
267	Climate Change-Mediated Temperature Extremes: Effects on the Immune System and Associations with Immune-Related Diseases.	Clinical reviews in allergy & immuno	2026-Sep-0	42711600
268	<i>Lactiplantibacillus plantarum</i> P10 alleviates hyperuricemia-induced inflammation in mice by modulating gut microbiota and histidine metabolism.	Letters in applied microbiology	2026-Sep-0	42711808
269	6'-Sialyllactose alleviates loperamide-induced constipation and depressive-like behaviors in mice by modulating gut microbiota and short-chain fatty acids.	Food & function	2026-Sep-0	42713904
270	Unraveling the bidirectional interplay of the gut microbiota with chemotherapy and radiotherapy in colorectal cancer: from pathogenesis to probiotic interventions.	Future microbiology	2026-Sep-0	42713919
271	Real-time volatilomics reveals microbiota and pathogen fingerprints in the honey bee.	mBio	2026-Sep-0	42714137
272	Gut Microbiota and Aldosterone Regulate Natriuretic Peptide B Expression to Drive Mitophagy and Metabolic Reprogramming in Sepsis-Like Model of Myocardial Injury.	Journal of the American Heart Associatio	2026-Sep-0	42714425
273	Understanding the gut microbiota to shape the future of intestinal failure care: a systematic review of the evidence.	European journal of pediatrics	2026-Sep-0	42714683
274	Postbiotics as a therapeutic frontier in Parkinson's disease: Insights into molecular pathways and neuroprotective effects.	Metabolic brain disease	2026-Sep-0	42714731
275	Gut microbiota as a modulator of HDAC: insights into Alzheimer's disease treatment.	Pharmacological reports : PR	2026-Sep-0	42714783
276	The Role and Therapeutic Potential of Gut Microbiota and Their Extracellular Vesicles in Neurological, Cardiovascular, and Metabolic Diseases.	Clinical and translational gastroenterol	2026-Sep-0	42715121
277	Decoding preeclampsia: A fusion of multi-view machine learning and multi-omics to identify putative inflammation-related mechanisms.	Molecular therapy. Nucleic acids	2026-Sep-0	42437307
278	Characterizing the role of the gut microbiota-inflammation-brain axis in major depressive disorder: an integrative multi-omics study.	NeuroImage	2026-Sep-0	42710643
279	Senotherapeutic Potential of Anti-Diabetic Medications: Bridging Type 2 Diabetes and Accelerated Aging.	Pharmacological research	2026-Sep-0	42710703
280	Gut Microbiota-Derived Indole-3-Propionic Acid Alleviates Diabetic Osteoporosis Through Nrf2-Mediated Ferroptosis Suppression.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-0	42711910
281	Research Progress on the Potential Mechanisms and Multimodal Management of Psychocardiological Disease.	Journal of visualized experiments : JoVE	2026-Sep-0	42714072
282	Genome-resolved analysis reveals disruption of gut microbial vitamin B and K2 biosynthesis during <i>Toxoplasma gondii</i> infection in mice.	Microbiology spectrum	2026-Sep-0	42708583
283	Longitudinal ecological disruption and metabolite associations of the gut microbiome during acute myeloid leukemia therapy.	Microbiology spectrum	2026-Sep-0	42708609

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284	Bile acid sequestration reveals microbiome remodeling that dominates FXR signaling to shape host responses to enteric infection.	PLoS pathogens	2026-Sep-0	42709861
285	The Role of Probiotics in Parkinson's Disease - Current Evidence and Future Perspectives.	Journal of dietary supplements	2026-Sep-0	42709936
286	Recent research progress on the mechanisms of clopidogrel resistance.	European journal of clinical pharmacolog	2026-Sep-0	42706349
287	Balancing efficacy and risk: A toxicological review and safety transformation of Berberis plants and their alkaloids.	Phytomedicine : international journal of	2026-Sep-0	42731298
288	The Gut-Brain Axis: Exploring the Role of Gut Microbiota in Alzheimer's Disease Pathogenesis and Therapeutics.	CNS & neurological disorders drug ta	2026-Sep-0	42725602
289	A functional immune-based platform for donor-recipient matching in faecal microbiota transplantation for inflammatory bowel disease.	EBioMedicine	2026-Sep-0	42705024
290	TRPV4 deletion remodels the gut microbiota and increases colonic ammonia levels.	Life sciences	2026-Sep-0	42705452
291	Gut microbiota alterations in patients with non-small-cell lung cancer undergoing chemoradiotherapy.	Molecular oncology	2026-Sep-0	42703809
292	Mesona chinensis Benth polyphenols ameliorate type 2 diabetes mellitus in mice through coordinated regulation of gut microbiota, metabolic profiles, and host metabolic-inflammatory	Bioorganic chemistry	2026-Sep-0	42715624
293	Agricultural By-Products and Black Soldier Fly Larvae Meal as Alternatives to Soybean Meal in Commercial Broiler Diets: Effects on Meat Quality, Fecal Microbiota, and Environmental	Journal of animal physiology and animal	2026-Sep-0	42702069
294	Angelica sinensis polysaccharide ameliorates chemotherapy-induced intestinal mucositis by regulating gut microbiota-mediated innate immunity and short-chain fatty acid production i	International journal of biological macr	2026-Sep-0	42702326
295	Emerging antimicrobial peptides in gastrointestinal disorders: Dual role in immunity and therapy.	World journal of gastrointestinal pharma	2026-Sep-0	42707805
296	Biotics in Menopausal Health: A Two-Decade Bibliometric Analysis and Narrative Review.	Current nutrition reports	2026-Sep-0	42700191
297	Decoding dysbiosis: the role of gut microbiota in MASLD progression and emerging therapeutic interventions.	Journal of physiology and biochemistry	2026-Sep-0	42700342
298	Antimony species-dependent enrichment and transcriptional activity of antibiotic and metal resistance genes in the gut microbiome of male mice.	Journal of environmental management	2026-Sep-0	42700527
299	Gut microbiome profiling at multiple sclerosis onset as a potential early prognostic marker of disease course: evidence from an observational cohort study.	EBioMedicine	2026-Sep-0	42700718
300	Sodium fluoride induces hepatic and intestinal injury via gut microbiota dysbiosis and inflammatory activation: insights from network toxicology and 16S rRNA sequencing.	Food and chemical toxicology : an intern	2026-Sep-0	42700789
301	Wuwei Huanglian Wan inhibits Helicobacter pylori and alleviates associated gastritis: host metabolic remodeling and altered IL-6/STAT3 signaling.	Journal of ethnopharmacology	2026-Sep-0	42700849
302	Postbiotics as a Therapeutic Target in Cognitive Impairment: Exploring into Molecular Pathways and Neuroprotective Effects.	Ageing research reviews	2026-Sep-0	42700869

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303	Gut Microbiota-Associated Suppression of Intestinal β -Catenin Signaling Contributes to Barrier Dysfunction and Hepatic Pyroptosis Following SCCPs Exposure.	Toxicology	2026-Sep-0	42700885
304	Advancement and Challenges in Multiple Sclerosis: Understanding the Disease from Etiology to Treatment.	Current neurovascular research	2026-Sep-0	42725523
305	Microbial modulation of CFTR modulator exposure: In vitro interactions between elxacaftor-tezacaftor-ivacaftor and pulmonary and gut bacteria from people with cystic fibrosis.	Biomedicine & pharmacotherapy = Biom	2026-Sep-0	42697038
306	Antibiotics and nanoparticles in Parkinson's disease: From gut microbiota dysbiosis to neuroprotection and targeted nanotherapies.	Biomedicine & pharmacotherapy = Biom	2026-Sep-0	42697040
307	Si-Si-Gu-Ben granules alleviate diarrhea-predominant irritable bowel syndrome by modulating gut microbiota and suppressing the TLR4/NF- κ B pathway: A combined clinical and animal st	Journal of ethnopharmacology	2026-Sep-0	42697497
308	Gut microbiota-derived imidazole propionate promotes primary sclerosing cholangitis via p38 signalling.	Nature metabolism	2026-Sep-0	42698000
309	Updates on the Evaluation of Lupus Arthritis.	Rheumatology and therapy	2026-Sep-0	42698059
310	Reduced gut microbiota-derived indole-3-carboxaldehyde and 5-hydroxyindole-3-acetic acid are associated with intestinal barrier dysfunction and inflammation in diarrheic suckling l	Journal of animal science and biotechnol	2026-Sep-0	42693444
311	Emerging Microbial Lipid Shifts in a Multistage Simulated Gut Inoculated with Human Fecal Microbiota.	Journal of proteome research	2026-Sep-0	42695882
312	Integrative multi-omics analyses suggest a candidate microbial metabolite-associated host gene network in ulcerative colitis.	Immunologic research	2026-Sep-0	42696087
313	Indole-3-propionic acid is an endogenic agonist of hypoxia-inducible factor-1 α to protect the heart against hypoxia.	Protein & cell	2026-Sep-0	42696407
314	A comprehensive meta-analysis on probiotic metabolites and inflammatory biomarkers in obesity.	Archives of physiology and biochemistry	2026-Sep-0	42696437
315	Bifidobacterium animalis subsp. lactis V9 overcomes CYFRA 21-1-linked immunochemotherapy resistance in NSCLC via microbial metabolites.	Science advances	2026-Sep-0	42685222
316	Solubilized lignin promotes the growth of Akkermansia muciniphila and improves insulin sensitivity.	Biochemical and biophysical research com	2026-Sep-0	42341418
317	Digestibility and in vitro fecal fermentation of whole-wheat breads with different estimated glycemic indices.	Food chemistry	2026-Sep-0	42710109
318	Comprehensive insights into Astragalus membranaceus polysaccharides: Extraction, structural characteristics, bioactivities, and applications: A review.	International journal of biological macr	2026-Sep-0	42692217
319	Effects of L-selenomethylselenocysteine-fortified milk powder on immune homeostasis, intestinal integrity, and gut microbiota in immunosuppressed mice.	Journal of dairy science	2026-Sep-0	42692331
320	Methanogens: vital but threatened members of the human microbiome?	Trends in microbiology	2026-Sep-0	42692861
321	The cystic fibrosis gut microbial dysbiosis index (CF-GMDI): a quantitative measure of gut microbial imbalance in children with cystic fibrosis.	Journal of cystic fibrosis : official jo	2026-Sep-0	42692915

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322	Mechanism of Quercetin in Treatment of Vascular Calcification in Chronic Kidney Disease.	Seminars in nephrology	2026-Sep-0	42692942
323	The inhibition of lactate/Gpr81 signalling driven by moderate-intensity continuous training protects against osteoarthritis.	Experimental & molecular medicine	2026-Sep-0	42693240
324	Chronic Stress Promotes Gastric Cancer Metastasis by Inducing Microbiota-Associated Kynurenine Accumulation and Macrophage Remodeling.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-0	42693581
325	Rosmarinic acid alleviates colitis and repairs mucus barrier damage in a gut microbiota-dependent manner.	Food & function	2026-Sep-0	42690410
326	Oral and gut microbiota profiles in patients with locally advanced rectal cancer with varying responses to neoadjuvant chemoradiotherapy.	Functional & integrative genomics	2026-Sep-0	42690486
327	Eagle-Derived Weissella confusa EG05 Prevents LPS-Induced Enteritis Through Modulation of Inflammation, Gut Barrier, And Microbiota.	Probiotics and antimicrobial proteins	2026-Sep-0	42690539
328	Dietary Resistant Maltodextrin Attenuates Skeletal Muscle Atrophy in Association with Modulation of the Microbiota-Gut-Muscle Axis in Aged Mice.	Journal of microbiology and biotechnolog	2026-Sep-0	42711247
329	Preventive effects of Faecalibacterium prausnitzii on chronic alcoholic liver injury and associated alterations in gut microbiota and host phenotypes in mice.	Journal of applied microbiology	2026-Sep-0	42622353
330	Unveiling the mechanism of metabolites derived from gut microbiota in the treatment of acute kidney injury via network pharmacology and bioinformatics.	Bioresources and bioprocessing	2026-Sep-0	42684649
331	Lactococcus Lactis Subsp. Lactis CAB701 Reduces Body fat mass in Adults with Overweight or Obesity: A Randomized, Double-Blind, Placebo-Controlled Trial.	Probiotics and antimicrobial proteins	2026-Sep-0	42684653
332	Gut microbial H2S promotes metabolic dysfunction in mice via hepatic PPAR α suppression.	The ISME journal	2026-Sep-0	42685246
333	Trimethylamine N-oxide drives cardiac hypertrophy through H3K27ac-mediated enhancer activation of ketohexokinase.	Biochemical pharmacology	2026-Sep-0	42685873
334	Modulating bile acid isomerization and brain distribution by multilflorin A mitigates neuroendocrine stress and ameliorates anxiety-like behavioral alterations.	Journal of ethnopharmacology	2026-Sep-0	42685938
335	Mechanistic insights into sucralose immunotoxicology: Dose-related modulation of the gut-immune axis in food allergy.	Chemico-biological interactions	2026-Sep-0	42686087
336	Comparison of clinical efficacy and gut microbiota characteristics in children with ASD treated with fecal microbiota transplantation and ketogenic diet.	BMC psychiatry	2026-Sep-0	42687165
337	Mechanistic Study of Inulin in Ameliorating Heat Stroke-Induced Intestinal Barrier Damage via Modulation of Gut Microbiota- Butyrate-GPR43 Axis.	Journal of agricultural and food chemist	2026-Sep-0	42690769
338	Guava Polysaccharide Interventions Ameliorate Delayed Neurocognitive Recovery by Modulating the Gut Microbiota-Arachidonic Acid Metabolism Axis and Attenuating A β /Tau Pathology.	Journal of agricultural and food chemist	2026-Sep-0	42690774
339	Polysaccharide from Oyster (Crassostrea gigas) Alleviates T2DM by Regulating the Gut Microbiota, Bile Acid Metabolism, and the PI3K/AKT Pathway.	Journal of agricultural and food chemist	2026-Sep-0	42690778

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340	Social lives of bacteria as revealed through CLASI-FISH.	Essays in biochemistry	2026-Sep-0	42614111
341	Nutrition support in gastroenterology: opinion on current literature.	Current opinion in gastroenterology	2026-Sep-0	42681978
342	A Critical Synthesis of Machine Learning in Autism Spectrum Disorder Genomic Research: From Transcriptomics to Microbiome.	Medeniyet medical journal	2026-Sep-0	42682077
343	Pre- and probiotics for gastrointestinal and behavioral symptoms in autism spectrum disorder: a systematic review.	Nutritional neuroscience	2026-Sep-0	42682264
344	Advancements in research on the anti-atherosclerotic effects and mechanisms of traditional Chinese medicine polysaccharides.	The Journal of pharmacy and pharmacology	2026-Sep-0	42704871
345	Alleviating effect of Gardenia Fructus polysaccharide and its enzymatic hydrolysate on DSS-induced colitis.	Food & function	2026-Sep-0	42545184
346	Mare milk and its extracellular vesicles alleviate DSS-induced colitis in mice by modulating immune responses and reshaping gut microbiota.	Food & function	2026-Sep-0	42573146
347	Chicken bone-derived peptides: characterization and effects on human gut microbiota using the Simulator of the Human Intestinal Microbial Ecosystem (SHIME [®]).	Food & function	2026-Sep-0	42573509
348	Pectic oligosaccharides reshape the gut microbiota-mediated intestinal vitamin B7 metabolic network to alleviate metabolic dysfunction-associated steatotic liver disease.	Food & function	2026-Sep-0	42609089
349	Empagliflozin improves gut microbial disturbances and intestinal barrier integrity in STZ-induced type 2 diabetic mice.	The Journal of endocrinology	2026-Sep-0	42615223
350	Impact of intestinal propionate metabolism on systemic metabolic homeostasis.	American journal of physiology. Endocrin	2026-Sep-0	42630008
351	Stimuli-Responsive Nanocoatings Enable Controlled Oral Delivery of Therapeutic Bacteria.	Accounts of chemical research	2026-Sep-0	42689510
352	Human Gut Microbes Transform the Chloroacetamide Herbicide Metazachlor to Metabolites with Altered Toxicological Characteristics.	Environmental science & technology	2026-Sep-0	42689817
353	Gut microbiota-derived indole-3-propionic acid attenuates Arsenic trioxide-induced cognitive impairment by inhibiting ubiquitination and degradation of BRD4.	British journal of pharmacology	2026-Sep-0	42681956
354	Microbiota-circadian desynchrony as a mechanistic interface for xenobiotic-induced systemic metabolic fatigue.	Chemico-biological interactions	2026-Sep-0	42442631
355	Gut-liver axis through microbiota-metabolite interplay driving age-dependent susceptibility to arsenite-induced liver injury in mice.	Ecotoxicology and environmental safety	2026-Sep-0	42470960
356	Gut microbial trimethylamine N-oxide generation promotes risk of atrial fibrillation via muscarinic receptor-mediated autonomic dysfunction.	The Journal of clinical investigation	2026-Sep-0	42497006
357	Oral exposure to non-brain-penetrable microplastics induces neurotoxicity via disrupting the gut microbiota-tryptophan metabolism-microglial autophagy cascade.	Journal of hazardous materials	2026-Sep-0	42537291
358	Ligand-selective AHR regulation in benzo[a]pyrene-induced colonic barrier injury: Indole-driven functional reprogramming and microbiota-dependent tryptophan defense.	Journal of hazardous materials	2026-Sep-0	42585956
359	Gut Dysbiosis Promotes Myocardial Hypertrophy via GBP2b/GBP1 in Chronic Colitis.	Circulation research	2026-Sep-0	42677470

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360	Microbiome Insights Into Zoonotic Risk at Wildlife-Human Interfaces in a Transitioning Landscape in Thailand.	Integrative zoology	2026-Sep-0	42677876
361	Hyaluronic acid from <i>C. glutamicum</i> repairs cartilage and joint injuries molecular weight-dependently via the microbiota-gut-joint axis.	Food & function	2026-Sep-0	42678376
362	Lonicerae Japonicae Flos as a Dietary Natural Product: Bioactive Constituents, Gut Health Modulation, and Therapeutic Potential in Ulcerative Colitis and Colorectal Cancer.	Food science & nutrition	2026-Sep	42756874
363	Effects of Short-Term Energy Limitation at Different Levels With Normal Protein Intake on Hepatic Lipid Metabolism and the Gut Microbiota in Overweight/Obese Mice.	Food science & nutrition	2026-Sep	42745996
364	A Multi-Target Approach to Colitis: Ergothioneine Promotes Recovery by Restoring the Intestinal Barrier, Reducing Inflammation, and Remodeling the Microbiota.	Food science & nutrition	2026-Sep	42729756
365	Therapeutic Effects of Propolis Supplementation on the Inflammatory State, Oxidative Stress, and Uremic Toxins in dialysis Patients: A Systematic Review.	Food science & nutrition	2026-Sep	42718867
366	Use of Fecal Sampling for Assessing Probiotic Effects on the Gut Microbiome: A Focused Narrative Review.	Cureus	2026-Sep	42719574
367	Furong Tongmai Capsule Ameliorates Atherosclerosis in ApoE-/- Mice by Modulating Gut Microbiota, Arachidonic Acid Metabolism and Macrophage Polarization.	Journal of cellular and molecular medici	2026-Sep	42706702
368	A Narrative Review of Airway and Gut Microbiota in Chronic Obstructive Pulmonary Disease: Clinical Associations, Methodological Heterogeneity, and Translational Priorities.	Cureus	2026-Sep	42699828
369	Do individual or societal consequences matter more? Reducing antibiotic expectations for uncomplicated urinary tract infections in females.	British journal of health psychology	2026-Sep	42702911
370	<i>Anaerostipes stercorihominis</i> sp. nov., isolated from human faeces.	International journal of systematic and	2026-Sep	42704660
371	The Gut-Brain Axis in <i>Ganoderma lucidum</i> 's Antidepressant Effects in Cancer Comorbidity: A Review.	The Journal of nutrition	2026-Sep	42468722
372	Early-life sleep fragmentation combined with high-fat diet induces weight gain despite reduced caloric intake in young adult mice.	Neuroscience letters	2026-Sep	42492884
373	Despite Its High Salt Content, Gochujang Attenuates Obesity-Induced Inflammatory Kidney Damage in Association With Gut Microbiota Modulation.	Food science & nutrition	2026-Sep	42694377
374	<i>Akkermansia muciniphila</i> and Its Bioactive Derivatives: Emerging Regulators of Healthy Aging.	Aging cell	2026-Sep	42695484
375	Gut-Intervertebral Disc Axis: Gut Microbiome-Driven Immune-Metabolic Imbalance and Intervertebral Disc Degeneration.	Journal of cellular physiology	2026-Sep	42691205
376	<i>Polygonatum sibiricum</i> polysaccharide ameliorates intestinal barrier dysfunction in aging mice via gut microbiota-metabolite modulation and TLR4/NF- κ B pathway inhibition.	Phytomedicine : international journal of	2026-Sep	42442028
377	<i>Artemisia argyi</i> essential oil modulates gut microbiota to influence serum metabolism in rabbits: effects on growth, meat quality, and organ index.	Microbiology spectrum	2026-Sep	42484325

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378	Resistant starch types 2 and 4 induce distinct and reversible changes in the human gut microbiome.	Microbiology spectrum	2026-Sep	42496113
379	Gut microbiota contributes to the therapeutic effect of acupuncture in atopic dermatitis.	Microbiology spectrum	2026-Sep	42545016
380	Effects of liraglutide on gut bacterial community dynamics.	Microbiology spectrum	2026-Sep	42545022
381	Multi-level aggregation analysis of microbiome composition and host gene expression reveals associations with systemic and local immunity.	Microbiology spectrum	2026-Sep	42573241
382	Metabolite sensing in cardiometabolic HFpEF: mechanisms and therapeutic perspectives.	Diabetes research and clinical practice	2026-Sep	42442550
383	Torreya grandis polysaccharide alleviates acute lung injury via the lung-gut axis: Gut microbiota and immune regulation mechanisms.	International journal of biological macr	2026-Sep	42442577
384	Melastoma dodecandrum polysaccharide alleviates urticaria via the gut-skin axis by modulating the gut microbiota and the NGF/TRPV1/p38 MAPK pathway.	Phytomedicine : international journal of	2026-Sep	42447507
385	Effects of paternal and maternal depression on offspring: Manifestations, mechanisms, and interventions.	Neurobiology of disease	2026-Sep	42448056
386	Osbeckia opipara attenuates inflammation and reconstructs the intestinal barrier in ulcerative colitis by modulating the AHR/IL-22/STAT3 signaling axis.	Phytomedicine : international journal of	2026-Sep	42462526
387	Paridis rhizoma total saponins ameliorate abnormal uterine bleeding via regulating Proteus mirabilis 2024-mediated estrogen metabolism in the gut-reproductive axis.	Phytomedicine : international journal of	2026-Sep	42462533
388	Microbiota in pancreatic cancer: Roles in tumor initiation and progression (Review).	Oncology letters	2026-Sep	42465857
389	Heyehui attenuates diet-induced obesity via regulating LEP/AMPK/ACC axis and restoring intestinal function in mice.	Phytomedicine : international journal of	2026-Sep	42468370
390	Synergistic mechanism of salt-processed Anemarrhenae Rhizoma on type 2 diabetes via gut microbiota and metabolic regulation.	Phytomedicine : international journal of	2026-Sep	42468371
391	Biochanin A alleviates HFD-induced MAFLD by inhibiting IRE1 α -SPT-ceramide axis and improving intestinal homeostasis.	Phytomedicine : international journal of	2026-Sep	42470952
392	Lonicera trichosantha alleviates LPS-induced endometritis in mice by modulating the gut microbiota and host metabolism.	Phytomedicine : international journal of	2026-Sep	42470953
393	Gut microbiota and the immune system: A regulatory axis through host MicroRNA modulation.	Infection, genetics and evolution : jour	2026-Sep	42480893
394	Clinical Trial: Multi-Strain Probiotic Improves Bile Acid Profile, Microbiome, and Metabolomic Parameters in Patients With History of Bile Acid Malabsorption-A Randomized, Controll	Alimentary pharmacology & therapeuti	2026-Sep	42487516
395	Mechanistic Insights Into the Anti-Constipation Potential of Xiaogan Jianwei Formula: Integration of HPLC-Q-TOF MS/MS, Network Pharmacology, In Vivo Validation, and Gut Microbiota.	Biomedical chromatography : BMC	2026-Sep	42489147
396	Cinnamon polysaccharides reshape gut microbiota and enrich Alloprevotella rava to promote acetate-dependent choline metabolism and delay mammary aging.	Phytomedicine : international journal of	2026-Sep	42492267

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397	Natural polysaccharides as multi-target therapeutic candidates for Alzheimer's disease: Mechanisms, structure-activity relationships, and translational perspectives.	Phytomedicine : international journal of	2026-Sep	42492268
398	Chronic kidney disease - associated encephalopathy: Clinical features, pathomechanisms and emerging therapeutic strategies (Review).	Molecular medicine reports	2026-Sep	42495768
399	Gut - bone metabolites: SCFAs, polyamines and microbial metabolomics in osteoporosis risk and therapy (Review).	International journal of molecular medic	2026-Sep	42495772
400	Targeting cystathionine- β -synthase (CBS)-mediated cell stemness and gut microbiome homeostasis: mechanism and clinical study of combined resveratrol-curcumin treatment for ulcerati	Phytomedicine : international journal of	2026-Sep	42497521
401	Modern approaches to gut microbiome investigation: Sequencing, culturomics, metabolomics, and beyond.	Journal of microbiological methods	2026-Sep	42498043
402	Molecular mechanisms of heavy metal-induced cancer: Insights from animal models and human implications.	Toxicology and industrial health	2026-Sep	42498637
403	Effects of Hedan Tablets Combined With Simvastatin on Hyperlipidemia: Insights From Microbiomics and Metabolomics.	Biomedical chromatography : BMC	2026-Sep	42517864
404	Intermittent fasting in diabetic retinopathy: microbiome modulation, mechanisms, and clinical insights.	Cardiovascular endocrinology & metab	2026-Sep	42519455
405	Resveratrol ameliorates PM2.5-aggravated IBS-D mouse symptoms by restoring the gut bacteria and hypoxanthine/linoleic acid metabolism homeostasis.	Environmental toxicology and pharmacolog	2026-Sep	42521107
406	A transferable gut microbiota-bile acid pathway programs nanomedicine pharmacokinetics and therapeutic response.	Nature materials	2026-Sep	42538384
407	Gut microbiota and brain health: Disease-specific pathways and emerging therapeutic strategies.	Multiple sclerosis and related disorders	2026-Sep	42542073
408	Integrated analysis of gut microbiota and metabolomics reveals the laxative mechanism of Sauropi Folium aqueous extract.	Fitoterapia	2026-Sep	42542303
409	Sex-dependent mechanisms in rheumatic diseases.	Nature reviews. Rheumatology	2026-Sep	42547810
410	Beyond Saturated Fat: A Four-Dimensional Framework for Understanding Milk Fat in Human Health.	Comprehensive reviews in food science an	2026-Sep	42557863
411	Environmental pollutants and testicular toxicity in male reproductive health: Basic evidence and translational prospects - A narrative review.	Reproductive toxicology (Elmsford, N.Y.)	2026-Sep	42551576
412	From indirect regulation to multi-layered metabolic control in MASLD: Multi-receptor agonism and microbiota-metabolite functional convergence.	Pharmacological research	2026-Sep	42570767
413	Engineered PEA-producing Lactobacillus paracasei F19 prevents colitis-associated colorectal cancer in mice by modulating inflammatory-angiogenic signaling and beneficially reshapes	Biomedicine & pharmacotherapy = Biom	2026-Sep	42574976
414	Antisense transcription reveals disease-associated adaptations in the human gut microbiome.	Nature microbiology	2026-Sep	42575975
415	Desaminotyrosine alleviates hepatic ischemia-reperfusion injury via the MAPK/ferroptosis axis and Bifidobacterium pseudolongum modulation.	Pharmacological research	2026-Sep	42586225

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416	Disrupted Gut Viral-Bacterial Ecology of Patients With Liver Cirrhosis.	Liver international : official journal o	2026-Sep	42587419
417	Camel milk-based probiotics: functional properties, gut health benefits, and emerging implications for the gut-brain axis-a comprehensive review.	Journal of food science and technology	2026-Sep	42603926
418	Perioperative gut microbial ecology: a new frontier for improving the prognosis of hepatocellular carcinoma surgery.	Precision clinical medicine	2026-Sep	42614744
419	Differential Expression of Human and Bacterial Proteins Reveals Microbiome-Host Crosstalk in Metabolic Disorders.	Proteomics. Clinical applications	2026-Sep	42615576
420	Fecal microbiota from chronically stressed donors transfers behavioral and prefrontal cortex gene expression alterations to healthy recipient mice.	Neurobiology of stress	2026-Sep	42620154
421	Astragalus polysaccharide ameliorates ischemic stroke via modulating the microbiota-gut-brain axis.	Chinese journal of natural medicines	2026-Sep	42629115
422	Pesticide Residues, Gut Microbiota, and Gastrointestinal Outcomes: A Scoping Review of Human Evidence.	Comprehensive reviews in food science an	2026-Sep	42634103
423	Mechanistic Insights Into the Association Between Gut Microbiota Diversity and Atherosclerosis, Acute Coronary Syndrome, and Peripheral Arterial Disease Progression.	Clinical cardiology	2026-Sep	42655876
424	Insights into antibiotic resistomes from gut meta-genome-assembled genomes of the free-range chickens.	Veterinary and animal science	2026-Sep	42662912
425	Comorbidity Mechanism and Management of Chronic Low Back Pain and Major Depressive Disorder: From Neural Circuit Remodeling to Precision Medicine.	Brain and behavior	2026-Sep	42670051
426	Theabrownin Alleviates Alcoholic Liver Disease in Mice by Improving Gut Microbiota and Tryptophan Metabolism.	Molecular nutrition & food research	2026-Sep	42671997
427	A Metabolism-Oriented Strategy for Systematic Analysis of the Pharmacological Material Basis of Classic Traditional Chinese Medicine Formulas: Taking Wuao Sanzi Decoction as an Exa	Journal of separation science	2026-Sep	42678343
428	Genetically Predicted Gut Microbial Taxa and Inflammatory Proteins Associated With Atrial Fibrillation: A Bidirectional Mendelian Randomization and Colocalization Study.	Journal of arrhythmia	2026-Oct	42798960
429	Propolis alleviated intestine injury in LPS treated mice by accommodating inflammation, oxidation resistance, intestinal barrier and microbiota.	3 Biotech	2026-Oct	42763525
430	Artemisinin and its derivatives for metabolic syndrome: From multi - target mechanisms to translational opportunities (Review).	Molecular medicine reports	2026-Nov	42757473
431	Navigating TIPS in the era of ageing and metabolic comorbidity: a contemporary narrative review of risk, resilience, and outcomes.	Gastroenterology report	2026-Feb	42798817
432	Personalized whole-body modeling links gut microbiota to metabolic perturbations in Alzheimer's disease.	Gut microbes	2026-Dec-3	42804599
433	Ethanol exposure is associated with spatial and taxon-specific gut microbiota remodeling characterized by ecological adaptation rather than broad activation of microbial ethanol me	Gut microbes	2026-Dec-3	42789300
434	CRISPR-Cas immune repertoires as an ecological record of bacterial interactions with mobile genetic elements in the human gut.	Gut microbes	2026-Dec-3	42768305

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435	The cervicovaginal gut microbiota axis as a key determinant of systemic physiology.	Gut microbes	2026-Dec-3	42768312
436	Gut-immune-PVAT axis is involved in ethanol-induced abdominal aortic dysfunction via IL-17RA, TLR4, and FPR1 signaling.	Gut microbes	2026-Dec-3	42768318
437	Targeting the gut-bone axis in osteoporosis: probiotic interventions and other microbiota-based therapeutic strategies.	Gut microbes	2026-Dec-3	42755181
438	Gut microbiota dysbiosis shapes brain T-cell immunity in accelerated aging.	Gut microbes	2026-Dec-3	42750596
439	Gut microbiota functional remodeling and butyrate depletion amplify anti-Ro/La antibody-driven type I interferon activation in neonatal lupus.	Gut microbes	2026-Dec-3	42747315
440	Probiotic supplementation increases fecal TLR4 agonists without improving disease activity in juvenile idiopathic arthritis: a randomized placebo-controlled trial.	Gut microbes	2026-Dec-3	42720258
441	Towards optimizing the host response to biotics: a report of an International Scientific Association for Probiotics and Prebiotics working group.	Gut microbes	2026-Dec-3	42712126
442	Determinants of enteric hyperoxaluria in the SAMP1/YitFc mouse model of spontaneous ileitis.	Gut microbes	2026-Dec-3	42702821
443	Nutritional regulation of gut-brain immune crosstalk across the lifespan.	Gut microbes	2026-Dec-3	42696146
444	Antibiotic pretreatment with ampicillin or streptomycin differentially shapes Salmonella infection kinetics and associated intestinal inflammation in mice.	Gut microbes	2026-Dec-3	42687710
445	Gut microbiota and metabolic alterations in participants with flatulence identify Faecalibacterium prausnitzii as a key microbial target for clinical intervention.	Gut microbes	2026-Dec-3	42689867
446	Protease-serpin-microbiome interactions in inflammatory bowel disease: toward integrated biomarkers of gut health.	Gut microbes	2026-Dec-3	42683650
447	Bacteroides cellulosilyticus-derived 2-hydroxyphenylacetic acid rectifies hepatic lipid homeostasis in MASLD by targeting the PPAR γ -CD36 axis.	Gut microbes	2026-Dec-3	42677827
448	Unraveling the drug resistance web in IBD: The gut microbiota-immunity-epigenetics axis.	Gut microbes	2026-Dec-3	42678063
449	Natural products alleviate exercise-induced fatigue by modulating gut microbiota: a systematic review.	Journal of the International Society of	2026-Dec-3	42704785
450	Effects of anti-aging diets and exercise on age-related musculoskeletal diseases via gut microbiota modulation.	Annals of medicine	2026-Dec	42773801
451	Enterocloster citroniae and related gut microbiome species modulate Vibrio cholerae biofilm formation through the production of bioactive small molecules.	Virulence	2026-Dec	42747286
452	Farming reshapes the gut resistome, virulome, and mobilome of Cervidae.	Virulence	2026-Dec	42706609
453	Hybrid bacteriophage hydrogels deplete intratumoral bacteria to potentiate oncolytic immunotherapy.	Biomaterials	2026-Aug-3	42691543
454	Lighting Up Gut Dysbiosis: Red-Shifted Whole-Cell Bioluminescence Enables Functional Sensing of Bile Salt Hydrolase Activity in Human Feces.	ACS sensors	2026-Aug-3	42687409

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455	Lactacaseibacillus paracasei HP7 Attenuates Helicobacter pylori Activity and Improves Upper Gastrointestinal Symptoms: A Double-Blind, Randomized, Placebo-Controlled, Clinical Trial	Journal of medicinal food	2026-Aug-3	42671007
456	Laccase-mediated biotransformation potential for fluorinated compounds by geographically diverse human gut microbiota.	mBio	2026-Aug-3	42671175
457	Growth-dependent tRNA reprogramming and codon bias link translation to metabolic state in Enterococcus faecalis.	mBio	2026-Aug-3	42671178
458	Body mass index-associated gut microbial taxa and functional pathways in women with benign and malignant breast disease.	Breast cancer research and treatment	2026-Aug-3	42671637
459	Early-Life Exposure to Organophosphorus Pesticide Mixtures and Impaired Neonatal Neurodevelopment: A Cohort Study Integrating Comprehensive Multi-Omics and Machine Learning.	Environmental pollution (Barking, Essex	2026-Aug-3	42674173
460	Simultaneous GC-MS Determination of Unsubstituted, Hydroxy-, Amino-, and Hydroxy-amino Short-Chain Fatty Acids Together with Amino Acids in Biological and Food Samples Following De	Analytical biochemistry	2026-Aug-3	42674308
461	Structural characterization and mechanisms of anti-diabetic activity of a novel polysaccharide with a fructose backbone from Polygonatum cyrtonema Hua.	International journal of biological macr	2026-Aug-3	42674321
462	Saccharin Revisited: Chemistry, Metabolism, Toxicology and Human Health Risk Assessment in the Era of Evidence-Based Food Safety.	Journal of applied toxicology : JAT	2026-Aug-3	42674673
463	Trehalose's untapped mechanisms in alzheimer's: gut-brain-autophagy signalling beyond the usual targets.	Daru : journal of Faculty of Pharmacy, T	2026-Aug-3	42675343
464	High-level substitution slows fermentation and modulates the gut microbiota in modified starches esterified with short-chain fatty acids.	Food chemistry	2026-Aug-2	42673874
465	Causal relationships between oral-gut microbiome and bone neoplasm-related phenotypes: Insights from bidirectional Mendelian randomization.	Medicine	2026-Aug-2	42675685
466	Healthy subjects gut microbiome modulation by Bacillus coagulans BCP92: A randomized, double-blind, placebo-controlled clinical trial.	Medicine	2026-Aug-2	42675742
467	Sex-specific gut microbial and metabolic responses to inhaled diesel exhaust particle exposure are modified by probiotic treatment in C57BL/6 mice.	Research square	2026-Aug-2	42687886
468	Human diets in transition: evolutionary legacies, cultural change and modern food environments.	Journal of anthropological sciences = Ri	2026-Aug-2	42678353
469	Ingestible Hydrogel-Encapsulated Optogenetic Yeast Controlled by Wearable Electronics Enables Programmable IL-10 Delivery for Inflammatory Bowel Disease Therapy.	ACS applied materials & interfaces	2026-Aug-2	42599838
470	Fabrication of Microcrystalline Cellulose/ZnO Quantum Dots with Enhanced Zinc Bioavailability for Alleviating DSS-Induced Ulcerative Colitis in Mice.	ACS applied materials & interfaces	2026-Aug-2	42605626
471	Arbutin Reshapes Intestinal Microbiota to Ameliorate Lipid Metabolic Dysfunction and Inflammation.	Journal of agricultural and food chemist	2026-Aug-2	42677656
472	A root pathogen drives rhizosphere enrichment of antagonistic Pseudomonas and induces production of an antimicrobial metabolite	bioRxiv preprint	2026-08-27	10.64898/2026.08.26.747274

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473	The Vitamin D-Gut-Brain Axis in Autism Spectrum Disorder: A Bidirectional Crosstalk.	International journal of general medicin	2026	42802812
474	Artesunate Targets MBL2 to Modulate the TLR4/NRF2/HO - 1 Axis and Ameliorate Podophyllotoxin - Induced Liver Injury.	Drug design, development and therapy	2026	42799208
475	Nutrition and Endometriosis: Current Evidence on Dietary Risk Factors and Clinical Impact - A Narrative Review.	Journal of inflammation research	2026	42801160
476	The Gut Microbiota-NLRP3 Inflammasome Axis in Chronic Heart Failure: Mechanisms Across Heart Failure Phenotypes and Therapeutic Perspectives.	Journal of inflammation research	2026	42780691
477	Efficacy, safety, and feasibility of youth-derived fecal microbiota transplantation among adults with type 1 diabetes mellitus: A protocol of Pilot Randomized Controlled Trial.	PloS one	2026	42766561
478	Sex-based differences in the gut-metabolism axis in aging and Nrf2-deficient mice.	PloS one	2026	42766607
479	Chemotherapy-Induced Remodeling of the Gut Microbiota-Inflammation Axis: Implications for the Course of Bipolar Disorder.	Journal of multidisciplinary healthcare	2026	42757275
480	Bibliometric Analysis of Gut Microbiota and Hepatocellular Carcinoma: Research Trends and Frontiers.	Journal of hepatocellular carcinoma	2026	42757287
481	Shotgun metagenomic profiling of the fecal microbiome in Lamp2 knockout mice reveals limited genotype-associated differences under standard housing.	PloS one	2026	42758711
482	Herbal Medicine and the Gastrointestinal Microbiota in Gastric Precancerous Lesions and Gastric Cancer: Mechanistic Evidence and Translational Challenges.	Cancer management and research	2026	42751615
483	Beyond the Pancreas: The Gut Microbiota in Acute Pancreatitis - From Mechanisms to Therapeutic Perspectives.	Clinical and experimental gastroenterolo	2026	42746344
484	"Gut-Joint Axis" Perspective on Immunometabolic Crosstalk in Osteoarthritis: A Narrative Review of Mechanistic Insights and Targeted Strategies.	Journal of inflammation research	2026	42746594
485	Gut Microbial Metabolites as a Bridge in Osteoporotic Rehabilitation for the Elderly: From Aging-Related Dysbiosis to Precision Non-Pharmacological Strategies.	International journal of general medicin	2026	42746595
486	Application of Human Umbilical Cord Mesenchymal Stem Cells and Their Derived Exosomes in Gastrointestinal Diseases.	International journal of nanomedicine	2026	42733878
487	Melatonin and Artificial Light: Effects on Maternal and Fetal Health During Pregnancy.	Obstetrics and gynecology international	2026	42732264
488	Bone Marrow Immunometabolic Remodeling in Osteoporosis: From Systemic Risk Factors to Precision Intervention.	International journal of general medicin	2026	42719409
489	Research Progress on Dietary Intervention in Radiation Protection.	Dose-response : a publication of Interna	2026	42719481
490	Gut-Lung Axis Microbiome Dysbiosis and Cross-Domain Network Analysis in Bronchiectasis Complicated by Invasive Pulmonary Aspergillosis.	Infection and drug resistance	2026	42719862
491	Gut Microbiome-Targeted Preventive Strategies for Polyendocrine Metabolic Ovarian Syndrome: Insights From the Prenatal and Early-Life Environment.	Reproductive medicine and biology	2026	42724200

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492	Probiotic-Derived Extracellular Vesicles as Potential Nano-Immunotherapeutic Platforms in IBD: A Clinician's Perspective.	International journal of nanomedicine	2026	42712961
493	Acupuncture Modulation of the Microbiota-Gut-Brain Axis in Major Depressive Disorder: Integrative Mechanisms, Emerging Evidence, and Future Therapeutic Perspectives.	Neuropsychiatric disease and treatment	2026	42707709
494	Alterations in Gut Microbiome Diversity and Composition in Patients with Epidermolysis Bullosa: A Case-Control Study.	Indian journal of dermatology	2026	42707828
495	Ketogenic diet-induced changes in hepatic drug metabolism with potential implications for ozanimod pharmacokinetics in mice.	PloS one	2026	42709766
496	Multi-Target Intervention of Traditional Chinese Medicine in Metabolic Dysfunction-Associated Steatohepatitis: Comprehensive Treatment Strategies from Lipotoxicity to Immune Regula	International journal of general medicin	2026	42699691
497	From Symbiont to Potential Carcinogenic Contributor: Examining the Pathogenic Evolution of <i>Morganella morganii</i> in Colorectal Cancer.	Infection and drug resistance	2026	42701660
498	Research Progress on the Relationship Between Radiation Enteritis and Gut Microbiota Dysbiosis.	Cancer management and research	2026	42703569
499	Engineered Nanozymes for Colorectal Cancer Therapy: Catalytic Reprogramming of the Tumor Microenvironment.	International journal of nanomedicine	2026	42689286
500	The Blastocystis-colorectal cancer hypothesis: correlation is not causation.	Open research Europe	2025	41908923

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